

QUARTERLY STATEMENT

OF THE

Massachusetts Mutual Life Insurance Company

TO THE

Insurance Department

OF THE

STATE OF

**FOR THE QUARTER ENDED
SEPTEMBER 30, 2013**

LIFE AND ACCIDENT AND HEALTH

2013



LIFE AND ACCIDENT AND HEALTH COMPANIES - ASSOCIATION EDITION

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2013
OF THE CONDITION AND AFFAIRS OF THE

Massachusetts Mutual Life Insurance Company

NAIC Group Code04350435NAIC Company Code65935Employer's ID Number04-1590850
(Current)(Prior)

Organized under the Laws ofMassachusetts, State of Domicile or Port of EntryMassachusetts

Country of DomicileUnited States of America

Incorporated/Organized05/15/1851Commenced Business08/01/1851

Statutory Home Office1295 State StreetSpringfield , MA, US 01111
(Street and Number)(City or Town, State, Country and Zip Code)

Main Administrative Office1295 State StreetSpringfield , MA, US 01111
(Street and Number)(City or Town, State, Country and Zip Code)

413-788-8411
(Area Code) (Telephone Number)

Mail Address1295 State StreetSpringfield , MA, US 01111
(Street and Number or P.O. Box)(City or Town, State, Country and Zip Code)

Primary Location of Books and Records1295 State StreetSpringfield , MA, US 01111
(Street and Number)(City or Town, State, Country and Zip Code)

413-788-8411
(Area Code) (Telephone Number)

Internet Website Addresswww.massmutual.com

Statutory Statement ContactTammy A. Peatman413-744-6327
(Name)(Area Code) (Telephone Number)

tpeatman@massmutual.com413-226-4086
(E-mail Address)(FAX Number)

OFFICERS

President and Chief Executive OfficerRoger William Crandall
SecretaryChristine Carole Peaslee

TreasurerTodd Garrett Picken
ActuaryIsadore Jermyn

OTHER

Michael Thomas Rollings Executive Vice President and Chief Financial Officer
Robert Joseph Casale Executive Vice President and Chief Information Officer
Elaine Anne Sarsynski Executive Vice President

Michael Robert Fanning Executive Vice President
Debra Ann Palermino Executive Vice President
Elizabeth Ward Chicares Executive Vice President and Chief Risk Officer

Melvin Timothy Corbett Executive Vice President and Chief Investment Officer
Mark Douglas Roellig Executive Vice President and General Counsel

DIRECTORS OR TRUSTEES

Roger William Crandall - Chairman
Kathleen Ann Corbet
Robert Alan Essner
Marc Francis Racicot
Howard Todd Stitzer

Thomas Corcoran Barry
James Henry DeGraffenreidt Jr - Lead Director
Raymond Walter LeBoeuf
Laura Jeanne Sen

Cristóbal Ignacio Conde
Patricia Diaz Dennis
Cathy Elizabeth Minehan
William Taylor Spitz

State ofMassachusetts
County ofHampden

SS:

The officers of this reporting entity being duly sworn, each depose and say that they are the described officers of said reporting entity, and that on the reporting period stated above, all of the herein described assets were the absolute property of the said reporting entity, free and clear from any liens or claims thereon, except as herein stated, and that this statement, together with related exhibits, schedules and explanations therein contained, annexed or referred to, is a full and true statement of all the assets and liabilities and of the condition and affairs of the said reporting entity as of the reporting period stated above, and of its income and deductions therefrom for the period ended, and have been completed in accordance with the NAIC Annual Statement Instructions and Accounting Practices and Procedures manual except to the extent that: (1) state law may differ; or, (2) that state rules or regulations require differences in reporting not related to accounting practices and procedures, according to the best of their information, knowledge and belief, respectively. Furthermore, the scope of this attestation by the described officers also includes the related corresponding electronic filing with the NAIC, when required, that is an exact copy (except for formatting differences due to electronic filing) of the enclosed statement. The electronic filing may be requested by various regulators in lieu of or in addition to the enclosed statement.

Roger William Crandall
President and Chief Executive Officer

Christine Carole Peaslee
Secretary

Todd Garrett Picken
Treasurer

Subscribed and sworn to before me this day of

a. Is this an original filing? Yes [X] No []
b. If no,
1. State the amendment number.....
2. Date filed
3. Number of pages attached.....

ASSETS

	Current Statement Date			4 December 31 Prior Year Net Admitted Assets
	1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	
1. Bonds	65,903,313,789		65,903,313,789	56,890,628,752
2. Stocks:				
2.1 Preferred stocks	489,476,467		489,476,467	335,646,121
2.2 Common stocks	7,320,404,223		7,320,404,223	6,609,034,374
3. Mortgage loans on real estate:				
3.1 First liens	16,119,998,265		16,119,998,265	13,957,098,772
3.2 Other than first liens.....				
4. Real estate:				
4.1 Properties occupied by the company (less \$ encumbrances)	108,463,096		108,463,096	100,125,243
4.2 Properties held for the production of income (less \$197,885,042 encumbrances)	998,887,006		998,887,006	1,033,274,822
4.3 Properties held for sale (less \$ encumbrances)				
5. Cash (\$496,594,093), cash equivalents (\$1,304,603,928) and short-term investments (\$562,461,280)	2,363,659,301		2,363,659,301	2,815,984,541
6. Contract loans (including \$ premium notes)	10,481,251,187	419,512	10,480,831,675	10,021,946,499
7. Derivatives	6,457,411,081		6,457,411,081	2,858,091,581
8. Other invested assets	7,237,983,126	95,552,683	7,142,430,443	6,538,003,770
9. Receivables for securities	319,146,188		319,146,188	1,568,138
10. Securities lending reinvested collateral assets				
11. Aggregate write-ins for invested assets				
12. Subtotals, cash and invested assets (Lines 1 to 11)	117,799,993,729	95,972,195	117,704,021,534	101,161,402,613
13. Title plants less \$ charged off (for Title insurers only)				
14. Investment income due and accrued	1,489,800,984	8,092,078	1,481,708,906	385,009,908
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	87,952,097	2,951,030	85,001,067	109,971,735
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	495,521,816		495,521,816	526,833,808
15.3 Accrued retrospective premiums				
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	16,436,195		16,436,195	18,895,708
16.2 Funds held by or deposited with reinsured companies				
16.3 Other amounts receivable under reinsurance contracts	7,846,739		7,846,739	19,986,028
17. Amounts receivable relating to uninsured plans				
18.1 Current federal and foreign income tax recoverable and interest thereon	211,943,581		211,943,581	285,655,030
18.2 Net deferred tax asset	907,523,942		907,523,942	607,477,429
19. Guaranty funds receivable or on deposit	34,241,451		34,241,451	27,695,296
20. Electronic data processing equipment and software	166,676,879	128,194,546	38,482,333	25,531,282
21. Furniture and equipment, including health care delivery assets (\$)	25,711,100	25,711,100		
22. Net adjustment in assets and liabilities due to foreign exchange rates	5,476		5,476	5,761
23. Receivables from parent, subsidiaries and affiliates	166,085,694		166,085,694	34,440,804
24. Health care (\$) and other amounts receivable				
25. Aggregate write-ins for other than invested assets	1,069,882,410	933,970,788	135,911,622	105,616,262
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	122,479,622,093	1,194,891,737	121,284,730,356	103,308,521,664
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts	55,401,325,931		55,401,325,931	52,340,206,257
28. Total (Lines 26 and 27)	177,880,948,024	1,194,891,737	176,686,056,287	155,648,727,921
DETAILS OF WRITE-INS				
1101.				
1102.				
1103.				
1198. Summary of remaining write-ins for Line 11 from overflow page				
1199. Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)				
2501. Employee insurance plan advances	37,308,573	280,843	37,027,730	35,713,656
2502. Investment in trust	36,795,439		36,795,439	35,807,276
2503. Fully refundable deposits and prepayments and other miscellaneous	122,560,697	86,927,919	35,632,778	487,866
2598. Summary of remaining write-ins for Line 25 from overflow page	873,217,701	846,762,026	26,455,675	33,607,464
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	1,069,882,410	933,970,788	135,911,622	105,616,262

LIABILITIES, SURPLUS AND OTHER FUNDS

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$80,517,803,465 less \$ included in Line 6.3 (including \$52,375,457 Modco Reserve)	80,517,803,465	71,243,342,721
2. Aggregate reserve for accident and health contracts (including \$23,818,703 Modco Reserve)	2,537,036,535	2,490,755,452
3. Liability for deposit-type contracts (including \$ Modco Reserve)	9,505,927,346	5,322,733,989
4. Contract claims:		
4.1 Life	260,866,472	259,222,811
4.2 Accident and health	21,600,196	20,723,397
5. Policyholders' dividends \$9,510,188 and coupons \$ due and unpaid	9,510,188	9,641,981
6. Provision for policyholders' dividends and coupons payable in following calendar year - estimated amounts:		
6.1 Dividends apportioned for payment (including \$ Modco)	1,429,231,236	1,390,114,061
6.2 Dividends not yet apportioned (including \$ Modco)		
6.3 Coupons and similar benefits (including \$ Modco)		
7. Amount provisionally held for deferred dividend policies not included in Line 6		
8. Premiums and annuity considerations for life and accident and health contracts received in advance less \$ discount; including \$6,311,727 accident and health premiums	28,098,268	23,390,741
9. Contract liabilities not included elsewhere:		
9.1 Surrender values on canceled contracts		
9.2 Provision for experience rating refunds, including the liability of \$ accident and health experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health Service Act	19,112,408	16,981,006
9.3 Other amounts payable on reinsurance, including \$28,546,341 assumed and \$11,808,238 ceded	40,354,579	34,790,146
9.4 Interest Maintenance Reserve	535,959,581	690,303,669
10. Commissions to agents due or accrued-life and annuity contracts \$23,104,010 , accident and health \$445,402 and deposit-type contract funds \$	23,549,412	7,489,614
11. Commissions and expense allowances payable on reinsurance assumed	5,820,416	6,458,719
12. General expenses due or accrued	873,743,842	980,122,733
13. Transfers to Separate Accounts due or accrued (net) (including \$(245,341,097) accrued for expense allowances recognized in reserves, net of reinsured allowances)	(286,607,739)	(284,658,039)
14. Taxes, licenses and fees due or accrued, excluding federal income taxes	38,243,770	74,399,738
15.1 Current federal and foreign income taxes, including \$ on realized capital gains (losses)		
15.2 Net deferred tax liability		
16. Unearned investment income	177,491,592	104,563,844
17. Amounts withheld or retained by company as agent or trustee	102,120,476	68,540,200
18. Amounts held for agents' account, including \$ agents' credit balances	241,741,368	230,017,455
19. Remittances and items not allocated	242,807,026	166,499,393
20. Net adjustment in assets and liabilities due to foreign exchange rates		
21. Liability for benefits for employees and agents if not included above	163,082,455	157,420,111
22. Borrowed money \$250,000,000 and interest thereon \$(17,583)	249,982,417	249,979,875
23. Dividends to stockholders declared and unpaid		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve	2,080,436,876	1,928,271,336
24.02 Reinsurance in unauthorized and certified (\$) companies		
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
24.04 Payable to parent, subsidiaries and affiliates	40,640,237	29,917,331
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance		
24.08 Derivatives	4,619,378,709	202,111,115
24.09 Payable for securities	198,261,864	33,385,103
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	5,287,929,917	5,173,940,930
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	108,964,122,912	90,630,459,432
27. From Separate Accounts Statement	55,392,086,520	52,331,384,851
28. Total liabilities (Lines 26 and 27)	164,356,209,432	142,961,844,283
29. Common capital stock		
30. Preferred capital stock		
31. Aggregate write-ins for other than special surplus funds		
32. Surplus notes	1,739,714,376	1,739,410,311
33. Gross paid in and contributed surplus		
34. Aggregate write-ins for special surplus funds	3,250,000	3,250,000
35. Unassigned funds (surplus)	10,586,882,479	10,944,223,327
36. Less treasury stock, at cost:		
36.1 shares common (value included in Line 29 \$)		
36.2 shares preferred (value included in Line 30 \$)		
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$9,239,411 in Separate Accounts Statement)	12,329,846,855	12,686,883,638
38. Totals of Lines 29, 30 and 37	12,329,846,855	12,686,883,638
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	176,686,056,287	155,648,727,921
DETAILS OF WRITE-INS		
2501. Reverse repurchase agreements and interest expense	3,458,227,925	3,824,201,585
2502. Derivative Interest Expense	1,251,982,999	
2503. Derivative collateral	455,705,519	1,304,468,753
2598. Summary of remaining write-ins for Line 25 from overflow page	122,013,474	45,270,592
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	5,287,929,917	5,173,940,930
3101.		
3102.		
3103.		
3198. Summary of remaining write-ins for Line 31 from overflow page		
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)		
3401. Designated surplus for group annuities	2,500,000	2,500,000
3402. Designated surplus for separate account business	750,000	750,000
3403.		
3498. Summary of remaining write-ins for Line 34 from overflow page		
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)	3,250,000	3,250,000

SUMMARY OF OPERATIONS

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	14,511,499,941	14,168,182,308	20,309,458,078
2. Considerations for supplementary contracts with life contingencies	15,482,113	13,280,961	17,198,821
3. Net investment income	3,772,278,452	3,523,195,783	4,798,175,414
4. Amortization of Interest Maintenance Reserve (IMR)	130,628,750	100,876,498	129,640,442
5. Separate Accounts net gain from operations excluding unrealized gains or losses	7,002	23,959	25,583
6. Commissions and expense allowances on reinsurance ceded	71,021,487	75,713,378	111,552,295
7. Reserve adjustments on reinsurance ceded	43,261,166	45,279,974	56,733,352
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	233,042,725	231,886,283	313,583,084
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	282,769,483	85,315,984	115,107,703
9. Totals (Lines 1 to 8.3)	19,059,991,119	18,243,755,128	25,851,474,772
10. Death benefits	988,782,587	951,163,920	1,278,570,533
11. Matured endowments (excluding guaranteed annual pure endowments)	12,028,578	9,740,398	16,827,018
12. Annuity benefits	860,828,317	753,378,819	1,025,297,931
13. Disability benefits and benefits under accident and health contracts	262,521,900	253,084,975	340,435,673
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	12,048,495,034	5,693,272,135	8,084,814,071
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	235,827,886	122,899,469	163,502,810
18. Payments on supplementary contracts with life contingencies	7,127,253	7,036,940	9,546,097
19. Increase in aggregate reserves for life and accident and health contracts	4,045,300,858	3,023,385,416	5,173,412,118
20. Totals (Lines 10 to 19)	18,460,912,413	10,813,962,072	16,092,406,251
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	469,499,052	412,604,007	578,482,033
22. Commissions and expense allowances on reinsurance assumed	446,533,911	19,961,790	26,440,864
23. General insurance expenses	1,145,292,819	997,511,769	1,420,454,947
24. Insurance taxes, licenses and fees, excluding federal income taxes	133,537,414	117,183,291	159,308,310
25. Increase in loading on deferred and uncollected premiums	(5,001,918)	(2,145,897)	2,945,513
26. Net transfers to or (from) Separate Accounts net of reinsurance	(1,272,358,224)	4,351,910,263	5,653,141,674
27. Aggregate write-ins for deductions	(1,485,023,624)	6,666,133	1,562,407
28. Totals (Lines 20 to 27)	17,893,391,843	16,717,653,428	23,934,741,999
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	1,166,599,276	1,526,101,700	1,916,732,773
30. Dividends to policyholders	1,007,190,684	958,974,420	1,378,515,704
31. Net gain from operations after dividends to policyholders and before federal income taxes (Line 29 minus Line 30)	159,408,592	567,127,280	538,217,069
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	24,746,387	(182,331,682)	(108,304,796)
33. Net gain from operations after dividends to policyholders and federal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	134,662,205	749,458,962	646,521,865
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$(78,194,085) (excluding taxes of \$(22,336,879) transferred to the IMR)	(173,263,459)	(167,871,611)	108,979,674
35. Net income (Line 33 plus Line 34)	(38,601,254)	581,587,351	755,501,539
CAPITAL AND SURPLUS ACCOUNT			
36. Capital and surplus, December 31, prior year	12,686,883,638	11,417,365,503	11,417,365,503
37. Net income (Line 35)	(38,601,254)	581,587,351	755,501,539
38. Change in net unrealized capital gains (losses) less capital gains tax of \$(281,356,008)	(320,670,606)	720,986,269	742,645,690
39. Change in net unrealized foreign exchange capital gain (loss)	23,050,643	(10,740,047)	(8,285,231)
40. Change in net deferred income tax	27,702,554	(328,123,905)	(550,732,439)
41. Change in nonadmitted assets	108,193,014	151,967,213	155,819,719
42. Change in liability for reinsurance in unauthorized and certified companies			
43. Change in reserve on account of change in valuation basis, (increase) or decrease	(87,077,892)		
44. Change in asset valuation reserve	(152,165,540)	(186,443,140)	(245,625,754)
45. Change in treasury stock			
46. Surplus (contributed to) withdrawn from Separate Accounts during period	24,855	(2,608)	(3,275)
47. Other changes in surplus in Separate Accounts Statement	411,003	813,257	1,139,920
48. Change in surplus notes	304,064	398,970,207	399,071,562
49. Cumulative effect of changes in accounting principles			
50. Capital changes:			
50.1 Paid in			
50.2 Transferred from surplus (Stock Dividend)			
50.3 Transferred to surplus			
51. Surplus adjustment:			
51.1 Paid in			
51.2 Transferred to capital (Stock Dividend)			
51.3 Transferred from capital			
51.4 Change in surplus as a result of reinsurance			
52. Dividends to stockholders			
53. Aggregate write-ins for gains and losses in surplus	81,792,376	(31,986,087)	19,986,404
54. Net change in capital and surplus for the year (Lines 37 through 53)	(357,036,783)	1,297,028,510	1,269,518,135
55. Capital and surplus, as of statement date (Lines 36 + 54)	12,329,846,855	12,714,394,013	12,686,883,638
DETAILS OF WRITE-INS			
08.301. Administrative fee and other income	282,769,483	85,315,984	115,107,703
08.302.			
08.303.			
08.398. Summary of remaining write-ins for Line 8.3 from overflow page			
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	282,769,483	85,315,984	115,107,703
2701. Modco adjustment for reinsurance agreement	(1,489,208,794)		
2702. Transfer of group pension contract losses to IMR	(21,600,099)	(26,199,155)	(33,838,285)
2703. Miscellaneous charges to operations	(3,605,573)	12,532,029	12,470,715
2798. Summary of remaining write-ins for Line 27 from overflow page	29,390,842	20,333,259	22,929,977
2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	(1,485,023,624)	6,666,133	1,562,407
5301. Accumulated other comprehensive income - pension	69,397,215		51,890,527
5302. Other changes in surplus	12,395,161	(31,986,087)	(31,904,123)
5303.			
5398. Summary of remaining write-ins for Line 53 from overflow page			
5399. Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	81,792,376	(31,986,087)	19,986,404

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

CASH FLOW

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
Cash from Operations			
1. Premiums collected net of reinsurance	14,571,414,711	14,226,659,981	20,279,632,070
2. Net investment income	3,983,514,294	3,618,886,645	4,789,178,799
3. Miscellaneous income	638,616,109	452,855,443	599,573,340
4. Total (Lines 1 to 3)	19,193,545,114	18,298,402,069	25,668,384,209
5. Benefit and loss related payments	14,082,213,485	7,728,209,278	10,670,473,682
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	(1,268,972,411)	4,357,699,547	5,755,106,384
7. Commissions, expenses paid and aggregate write-ins for deductions	847,767,747	1,550,367,351	2,021,337,899
8. Dividends paid to policyholders	968,205,303	924,541,090	1,313,470,323
9. Federal and foreign income taxes paid (recovered) net of \$90,507,563 tax on capital gains (losses)	(104,822,268)	78,981,810	(25,813,715)
10. Total (Lines 5 through 9)	14,524,391,856	14,639,799,076	19,734,574,573
11. Net cash from operations (Line 4 minus Line 10)	4,669,153,258	3,658,602,993	5,933,809,636
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	14,540,233,934	12,638,496,576	16,842,073,657
12.2 Stocks	491,501,269	563,081,942	777,892,800
12.3 Mortgage loans	1,471,158,484	1,738,320,385	2,054,472,553
12.4 Real estate	70,836,080	57,805,725	102,670,766
12.5 Other invested assets	932,791,007	728,373,559	1,005,776,497
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	4,563,608	(2,088,682)	(1,997,803)
12.7 Miscellaneous proceeds	(861,885,404)	(16,653,040)	(64,105,762)
12.8 Total investment proceeds (Lines 12.1 to 12.7)	16,649,198,978	15,707,336,465	20,716,782,708
13. Cost of investments acquired (long-term only):			
13.1 Bonds	23,440,153,696	13,801,788,044	19,736,602,219
13.2 Stocks	1,131,832,525	600,173,595	803,147,514
13.3 Mortgage loans	3,667,231,481	3,187,198,093	3,582,434,197
13.4 Real estate	71,377,532	4,834,221	120,771,397
13.5 Other invested assets	1,555,631,077	1,082,868,815	1,515,013,066
13.6 Miscellaneous applications	(165,151,880)	(12,101,282)	68,820,044
13.7 Total investments acquired (Lines 13.1 to 13.6)	29,701,074,431	18,664,761,486	25,826,788,437
14. Net increase (or decrease) in contract loans and premium notes	458,856,794	438,514,878	543,478,243
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(13,510,732,247)	(3,395,939,899)	(5,653,483,972)
Cash from Financing and Miscellaneous Sources			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes	304,064	398,970,207	399,071,562
16.2 Capital and paid in surplus, less treasury stock			
16.3 Borrowed funds	14,896	(7,833)	(11,674)
16.4 Net deposits on deposit-type contracts and other insurance liabilities	(94,172,179)	117,745,475	587,675,832
16.5 Dividends to stockholders			
16.6 Other cash provided (applied)	8,483,106,968	257,143,958	(81,658,495)
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	8,389,253,749	773,851,807	905,077,225
RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17) ..	(452,325,240)	1,036,514,901	1,185,402,889
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	2,815,984,541	1,630,581,652	1,630,581,652
19.2 End of period (Line 18 plus Line 19.1)	2,363,659,301	2,667,096,553	2,815,984,541

Note: Supplemental disclosures of cash flow information for non-cash transactions:

20.0001. Bonds from reinsurance transaction	8,580,795,510		
20.0002. Policyholder reserves from reinsurance transaction	5,297,566,294		
20.0003. Liabilities for deposit-type contracts from reinsurance transaction	3,885,213,352		
20.0004. Bank loan rollovers	1,428,731,318	5,610,993,294	2,346,966,606
20.0005. Other liabilities from reinsurance transaction	879,468,435		
20.0006. Mortgage loans from reinsurance transaction	736,050,709		
20.0007. Other assets from reinsurance transaction	382,571,118		
20.0008. Bond conversions and refinancing	352,418,184	1,211,955,163	538,335,840
20.0009. Stock conversion	286,199,946	1,303,584	1,159,164
20.0010. Bond conversions to other invested assets	181,638,855		

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

Note: Supplemental disclosures of cash flow information for non-cash transactions:

20.0011. Surplus notes from reinsurance transaction	21,175,483		
20.0012. Preferred stock from reinsurance transaction	12,981,488		
20.0013. Net investment income payment in-kind bonds	8,468,699	3,419,318	2,448,343
20.0014. Other	8,033,262	4,542,982	3,081,329
20.0015. Other invested assets stock distribution	4,375,851	24,895,702	25,491,020
20.0016. Mortgages converted to other invested assets		54,904,495	54,904,495

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS			
	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Industrial life			
2. Ordinary life insurance	3,342,793,080	3,243,345,316	4,681,452,575
3. Ordinary individual annuities	2,318,008,461	1,394,951,138	1,998,434,379
4. Credit life (group and individual)			
5. Group life insurance	783,116,564	542,851,668	894,686,380
6. Group annuities	6,597,214,864	8,917,353,844	12,691,765,687
7. A & H - group	155,154	148,763	199,228
8. A & H - credit (group and individual)			
9. A & H - other	501,369,844	492,974,030	659,794,281
10. Aggregate of all other lines of business			
11. Subtotal	13,542,657,967	14,591,624,759	20,926,332,531
12. Deposit-type contracts	599,814,754	498,702,828	995,309,782
13. Total	14,142,472,721	15,090,327,587	21,921,642,313
DETAILS OF WRITE-INS			
1001.			
1002.			
1003.			
1098. Summary of remaining write-ins for Line 10 from overflow page			
1099. Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)			

NOTES TO FINANCIAL STATEMENTS

TABLE OF CONTENTS

Note 1 – Summary of Significant Accounting Policies

Note 2 – Accounting Changes and Corrections of Errors

Note 3 – Business Combinations and Goodwill

Note 4 – Discontinued Operations

Note 5 – Investments

Note 6 – Joint Ventures, Partnerships and LLCs

Note 7 – Investment Income

Note 8 – Derivative Instruments

Note 9 – Income Taxes

Note 10 – Information Concerning Parent, Subsidiaries and Affiliates

Note 11 – Debt

Note 12 – Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans

Note 13 – Capital and Surplus, Shareholders' Dividend Restrictions and Quasi-Reorganizations

Note 14 – Contingencies

Note 15 – Leases

Note 16 – Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk

Note 17 – Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities

Note 18 – Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans

Note 19 – Direct Premium Written/Produced By Managing General Agents/Third Party Administrators

Note 20 – Fair Value Measurements

Note 21 – Other Items

Note 22 – Events Subsequent

Note 23 – Reinsurance

Note 24 – Retrospectively Rated Contracts and Contracts Subject to Redetermination

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

Note 26 – Intercompany Pooling Arrangements

Note 27 – Structured Settlements

Note 28 – Health Care Receivables

Note 29 – Participating Policies

Note 30 – Premium Deficiency Reserves

Note 31 – Reserves for Life Contracts and Annuity Contracts

Note 32 – Analysis of Annuity Actuarial Reserves and Deposit Liabilities by Withdrawal Characteristics

Note 33 – Premium and Annuity Considerations Deferred and Uncollected

Note 34 – Separate Accounts

Note 35 – Loss/Claim Adjustment Expenses

Note 36 – Impairment Listing for Loan-Backed and Structured Securities

NOTES TO FINANCIAL STATEMENTS

Note 1 – Summary of Significant Accounting Policies

- a. Massachusetts Mutual Life Insurance Company (the Company) recognizes statutory accounting practices prescribed or permitted by the Commonwealth of Massachusetts Division of Insurance (the Division) for determining and reporting the financial condition and results of operations of an insurance company. The National Association of Insurance Commissioners (NAIC) Accounting Practices and Procedures Manual (NAIC SAP) has been adopted as a component of prescribed or permitted practices by the Division. The Company has adopted certain procedures that differ from NAIC SAP; however, such deviations are not believed to have a material impact on income, statutory surplus or Risk Based Capital (RBC).
- b. Use of estimates in the preparation of the financial statements – No significant changes
- c. Accounting policy – No significant changes

Note 2 - Accounting Changes and Corrections of Errors

- a. Under statutory accounting principles, corrections of prior year errors are recorded in current year surplus on a pretax basis with any associated tax impact reported through earnings. The following summarizes corrections of prior year errors:

	Nine Months Ended September 30, 2013		
	Increase (Decrease) to:		Correction of Asset or Liability Balances
	Prior Year Income	Current Year Surplus	
	(In Millions)		
Policyholders' reserves	\$ 22	\$ 22	\$ (22)
Premium income (ceded)	(12)	(12)	12
Other invested assets	2	2	(2)
Total	\$ 12	\$ 12	\$ (12)

	Nine Months Ended September 30, 2012		
	Increase (Decrease) to:		Correction of Asset or Liability Balances
	Prior Year Income	Current Year Surplus	
	(In Millions)		
Policyholders' reserves	\$ (19)	\$ (19)	\$ 19
General insurance expenses	(11)	(11)	11
Reinsurance	(3)	(3)	3
Other	(3)	(3)	3
Partnership income	4	4	(4)
Total	\$ (32)	\$ (32)	\$ 32

Certain prior year amounts within these financial statements have been reclassified to conform to the current year presentation.

NOTES TO FINANCIAL STATEMENTS

b. Adoption of new accounting standards:

In March 2012, the NAIC issued Statement of Statutory Accounting Principles (SSAP) No. 102 "Accounting for Pensions, Replacement of SSAP No. 89," which was effective on January 1, 2013. This SSAP primarily adopts United States of America (U.S.) generally accepted accounting principles (GAAP) accounting guidance for pensions by requiring entities to measure the pension liability at the projected benefit obligation and to recognize the funded status of the defined benefit pension plan on the statement of financial position. The projected benefit obligation includes amounts for both vested and non-vested participants and makes assumptions for future compensation increases. The adoption of this SSAP on January 1, 2013 created an additional pension liability of \$43 million of which the Company immediately recorded \$8 million as a decrease to surplus. The remaining \$35 million transition liability has been deferred and will be amortized through 2021.

In March 2012, the NAIC issued SSAP No. 92, "Accounting for Postretirement Benefits Other Than Pensions, A Replacement of SSAP No. 14," which was effective January 1, 2013. Under this SSAP, participants not yet eligible to retire will also be included in the accumulated postretirement benefit obligation. The accumulated postretirement benefit obligation is already recorded on a U.S. GAAP basis on the books of MassMutual Holding LLC (MMHLLC), a subsidiary of the Company. The adjusted U.S. GAAP equity of this subsidiary is included in admitted assets of the Company for statutory purposes. Therefore, there was no impact from the adoption of this SSAP besides disclosure.

In March 2012, the NAIC issued SSAP No. 103, "Accounting for Transfers and Servicing of Financial Assets and Extinguishments of Liabilities," which superseded SSAP No. 91R, "Accounting for Transfers and Servicing of Financial Assets and Extinguishments of Liabilities." The change to SSAP No. 91R incorporates the U.S. GAAP guidance of the Financial Accounting Standards Board (FASB) Statement No. 166, "Accounting for Transfers and Servicing of Financial Assets, an amendment of FASB Statement No. 140," and Accounting Standards Update No. 2011-03, "Transfers and Servicing (Topic 860), Reconsideration of Effective Control for Repurchase Agreements," with modifications to conform the guidance to statutory accounting concepts. These modifications are primarily related to concepts that are not applicable or consistent with statutory accounting (e.g., rejection of U.S. GAAP consideration for consolidated affiliates, references to U.S. GAAP standards, methods, references and guidance not adopted for/applicable to statutory accounting). The Company adopted the guidance prospectively as of January 1, 2013. Adoption of this guidance did not have an impact on the Company's financial statements.

In August 2012, the NAIC issued new guidance pertaining to share-based payments. This new standard provides statutory accounting guidance on transactions in which an entity awards employees in share-based payments. It requires entities to measure share-based payments in the financial statements using a fair value-based measurement objective and recognize the compensation costs as employee services are consumed. It substantially adopts the stock compensation guidance in U.S. GAAP under Accounting Standards Codification Topic 718, Stock Compensation, which the Company has applied to its accounting for the phantom stock appreciation rights and phantom restricted stock since 2008. This guidance was issued as SSAP No. 104, "Share-Based Payments – Revised," which supersedes SSAP No. 13, "Stock Options and Stock Purchase Plans," and is effective prospectively for years beginning on January 1, 2013, although early adoption was permitted for the December 31, 2012 financial statements. The Company early adopted this statement as of December 31, 2012, and it did not have an impact on the Company's financial statements.

Note 3 – Business Combinations and Goodwill - No significant changes

Note 4 – Discontinued Operations - No significant changes

Note 5 – Investments

a. Mortgage loans, including mezzanine real estate loans – No significant changes

b. Debt restructuring – No significant changes

c. Reverse mortgages – No significant changes

d. Loan-backed and structured securities:

(1) No significant changes

(2) The following contains loan-backed and structured securities that recognized other-than-temporary impairments (OTTI) classified on the following bases for recognizing OTTI:

	Nine Month Ended September 30,	
	2013	2012
	(In Millions)	
Intent to sell	\$ -	\$ -
Inability or lack of intent to retain for a period of time sufficient to recover amortized cost basis	-	-
Present value of cash flows expected to be collected is less than amortized cost basis	(13)	(87)
Total	<u>\$ (13)</u>	<u>\$ (87)</u>

(3) Refer to Note 36. "Impairment Listing for Loan-Backed and Structured Securities" for a CUSIP detail list of impaired structured securities where the present value of cash flows expected to be collected is less than the amortized cost basis.

(4) As of September 30, 2013, the gross unrealized losses and fair values for investments in structured and loan-backed securities for which an OTTI has not been recognized in earnings follows (in millions):

a. The aggregate amount of unrealized losses:

1. Less than 12 months	\$ (82)
2. 12 months or longer	\$ (80)

b. The aggregate related fair value of securities with unrealized losses:

1. Less than 12 months	\$ 2,872
2. 12 months or longer	\$ 1,127

NOTES TO FINANCIAL STATEMENTS

(5) No significant changes

- e. Repurchase agreements – No significant changes
- f. Real estate – No significant changes
- g. Low income housing tax credit properties – No significant changes

Note 6 – Joint Ventures, Partnerships and LLCs - No significant changes

Note 7 – Investment Income – No significant changes

Note 8 – Derivative Instruments - No significant changes

Note 9 – Income Taxes

- a. For the nine months ended September 30, 2013, the Company's net admitted deferred tax asset (DTA) increased by \$301 million from December 31, 2012.

	September 30, 2013		
	Ordinary	Capital	Total
	(In Millions)		
(a) Gross DTAs	\$ 2,565	\$ 72	\$ 2,637
(b) Statutory valuation allowance adjustment	-	-	-
(c) Adjusted gross DTAs	2,565	72	2,637
(d) DTAs nonadmitted	-	-	-
(e) Subtotal net admitted DTA	2,565	72	2,637
(f) Total gross DTLs	(1,207)	(522)	(1,729)
(g) Net admitted DTA(L)	\$ 1,358	\$ (450)	\$ 908

	December 31, 2012		
	Ordinary	Capital	Total
	(In Millions)		
(a) Gross DTAs	\$ 2,568	\$ 75	\$ 2,643
(b) Statutory valuation allowance adjustment	-	-	-
(c) Adjusted gross DTAs	2,568	75	2,643
(d) DTAs nonadmitted	-	-	-
(e) Subtotal net admitted DTA	2,568	75	2,643
(f) Total gross DTLs	(1,433)	(603)	(2,036)
(g) Net admitted DTA(L)	\$ 1,135	\$ (528)	\$ 607

	Change		
	Ordinary	Capital	Total
	(In Millions)		
(a) Gross DTAs	\$ (3)	\$ (3)	\$ (6)
(b) Statutory valuation allowance adjustment	-	-	-
(c) Adjusted gross DTAs	(3)	(3)	(6)
(d) DTAs nonadmitted	-	-	-
(e) Subtotal net admitted DTA	(3)	(3)	(6)
(f) Total gross DTLs	226	81	307
(g) Net admitted DTA(L)	\$ 223	\$ 78	\$ 301

Note 10 – Information Concerning Parent, Subsidiaries and Affiliates

a-d. No significant changes

- e. The Company had two modified coinsurance (Modco) agreements with the Japanese subsidiary of MMHLLC, MassMutual Life Insurance Company, on certain life insurance products. Under these Modco agreements, the Company was the reinsurer and the Japanese subsidiary retains the reserve and associated assets on individual life insurance policies. The predominant contract types are whole life, endowments and term insurance. The Modco agreements allow the Japanese subsidiary to keep control of the investment and management of the assets supporting the reserves. The Modco adjustment is the mechanism by which the Company funds the reserve on the reinsured portion of the risk. It is needed to adjust for the financial effect of the Japanese subsidiary holding the reserves on the ceded coverage rather than the Company. These two Modco agreements were recaptured, effective May 31, 2013, resulting in an \$8 million increase to income due to the recapture fee paid to MassMutual from the Japanese subsidiary.
- f. The Company entered into a service agreement with MassMutual Retirement Services, LLC (MMRS) where the Company, for a fee, will furnish MMRS, as required, operating facilities, human resources, computer software development and managerial services. MMRS will pay the Company an annual administrative and support services fee equal to the actual costs and expenses, as reasonably determined, incurred with respect to such services, plus four percent of such actual costs and expenses. For the nine months ended September 30, 2013, the Company recorded fees of \$54 million related to this contract.

NOTES TO FINANCIAL STATEMENTS

- g. On April 16, 2010, a lawsuit was filed in New York state court against OppenheimerFunds, Inc. (OFI), its subsidiary HarbourView Asset Management Corporation (HVAMC) and AAArdvark IV Funding Limited (AAArdvark IV) in connection with the investment made by TSL (USA) Inc., an affiliate of National Australia Bank Limited, in AAArdvark IV. The complaint alleges breach of contract, breach of the covenant of good faith and fair dealing, gross negligence, unjust enrichment and conversion. The complaint seeks compensatory and punitive damages, along with attorney fees. The court has dismissed certain equitable claims against OFI and HVAMC, leaving only the claims for breach of contract. Plaintiffs filed an amended complaint with additional contractual claims. In October 2011, defendants moved to dismiss the complaint to the extent it seeks damages in the form of a return of the plaintiffs' full principal investment. In December 2011, plaintiffs filed a motion for partial summary judgment. In January 2012, the court granted in part defendant's motion to dismiss and denied plaintiffs' motion for partial summary judgment. In April 2012, plaintiffs filed a motion for leave to file a third amended complaint, which added a fraud claim and additional allegations in support of plaintiffs' contract claims. In August 2012, plaintiffs and defendants separately filed motions for partial summary judgment. In April 2013, the court (i) denied plaintiffs' motion for summary judgment; (ii) granted defendants' motion of summary judgment, dismissing plaintiffs' fraud claim with prejudice and dismissing their contract claim without prejudice and (iii) granted plaintiffs' leave to replead to assert a cause of action for specific performance within 30 days. In May 2013, the plaintiffs filed a notice of appeal of the court's April 2013 order of dismissal. The parties have agreed to stay further proceedings pending the appeal. OFI believes it has substantial defenses to the remaining claims and will continue to vigorously defend itself in these actions. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from these claims.

On July 15, 2011, a lawsuit was filed in New York State Supreme Court against OFI, HVAMC and AAArdvark I Funding Limited (AAArdvark I), in connection with investments made by TSL (USA) Inc. and other investors in AAArdvark I. The complaint alleges breach of contract against each of the defendants and seeks compensatory damages and costs and disbursements, including attorney fees. In October 2011, defendants moved to dismiss the complaint to the extent it seeks damages in the form of a return of the plaintiffs' full principal investment. In January 2012, the court granted in part defendant's motion to dismiss. In July 2012, the parties participated in a mediation of their dispute, which did not result in a settlement. In March 2013, plaintiffs filed an amended complaint, which added a fraud claim and alleged additional facts in support of plaintiffs' contract claim. The parties have agreed to stay proceedings pending the appeal of the AAArdvark IV dismissal order. OFI believes it has substantial defenses to the remaining claims and will continue to vigorously defend itself in these actions. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from these claims.

On November 9, 2011, a lawsuit was filed in New York State Supreme Court against OFI, HVAMC and AAArdvark XS Funding Limited (AAArdvark XS) in connection with the investment made by Scaldis Capital Limited, predecessor in interest to plaintiff Royal Park Investments SA/NV, in AAArdvark XS. The complaint alleges breach of contract against the defendants and seeks compensatory damages and an award of attorney fees and litigation expenses. OFI believes it has substantial defenses and will vigorously defend itself in these actions. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from these claims.

Beyond these matters, MMHLLC's subsidiaries are involved in litigation and investigations arising in the ordinary course of the subsidiaries' businesses. Although the Company is not aware of any actions or allegations that reasonably should give rise to a material adverse impact to the Company's financial position or liquidity, because of the uncertainties involved with some of these matters, future revisions to the estimates of the potential liability could materially affect the Company's financial position.

The Company has no parent.

h-l. No significant changes

Note 11 – Debt - No significant changes

Note 12 – Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans

The Company contributed \$61 million to its qualified pension plan, for the nine months ended September 30, 2013.

		Nine Months Ended September 30,					
		2013	2012	2013	2012	2013	2012
		Pension Benefits		Postretirement Benefits		Postemployment Benefits	
		(In Millions)					
(6)	Components of net periodic benefit cost:						
a.	Service cost	\$ 55	\$ 44	\$ 6	\$ 3	\$ 2	\$ 2
b.	Interest cost	70	69	11	10	-	1
c.	Expected return on plan assets	(102)	(91)	-	-	-	-
d.	Transition asset or obligation	-	-	-	3	-	-
e.	Gains and losses	70	69	4	2	-	-
f.	Prior service cost or credit	6	-	3	-	-	-
g.	Gain or loss recognized due to a settlement or curtailment	-	-	-	-	-	-
h.	Total net periodic benefit cost	\$ 99	\$ 91	\$ 24	\$ 18	\$ 2	\$ 3

Note 13 – Capital and Surplus, Shareholders' Dividend Restrictions and Quasi-Reorganizations - No significant changes

Note 14 – Contingencies

- Contingent commitments - No significant changes
- Assessments - No significant changes
- Gain contingencies - No significant changes

NOTES TO FINANCIAL STATEMENTS

d. Claims related to extra contractual obligations - No significant changes

e. All other contingencies:

The Company is involved in litigation arising in and out of the normal course of business, which seeks both compensatory and punitive damages. Although the Company is not aware of any actions or allegations that reasonably should give rise to a material adverse impact to the Company's financial position or liquidity, the outcome of litigation cannot be foreseen with certainty. It is the opinion of management that the ultimate resolution of these matters will not materially impact the Company's financial position or liquidity. However, the outcome of a particular proceeding may be material to the Company's operating results for a particular period depending upon, among other factors, the size of the loss or liability and the level of the Company's income for the period.

Since December 2008, the Company and MMHLLC have been named as defendants in a number of putative class action and individual lawsuits filed by investors seeking to recover investments they allegedly lost as a result of the "Ponzi" scheme run by Bernard L. Madoff through his company, Bernard L. Madoff Investment Securities, LLC (BLMIS). The plaintiffs allege a variety of state law and federal securities claims against the Company and/or MMHLLC, and certain of its subsidiaries, seeking to recover losses arising from their investments in several funds managed by Tremont Group Holdings, Inc. (Tremont) or Tremont Partners, Inc., including Rye Select Broad Market Prime Fund, L.P., Rye Select Broad Market Fund, L.P., American Masters Broad Market Prime Fund, L.P., American Masters Market Neutral Fund, L.P. and/or Tremont Market Neutral Fund, L.P. Tremont and its subsidiary, Tremont Partners, Inc., are indirect subsidiaries of MMHLLC. Certain of the lawsuits have been consolidated into three groups of suits pending in the U.S. District Court for the Southern District of New York. In February 2011, the parties in the consolidated federal litigation submitted to the court a proposed settlement agreement. In August 2011, the court entered an order and final judgment approving the settlement. Appeals have been filed and remain pending. The settlement, if affirmed on appeal, will not have a significant financial impact on the Company.

Additionally, a number of other lawsuits were filed in state courts in California, Colorado, Florida, Massachusetts, New Mexico, New York and Washington by investors in Tremont funds against Tremont, and in certain cases against the Company, MMHLLC and other defendants, raising claims similar to those in the consolidated federal litigation. Those cases are in various stages of litigation. The Company believes it has substantial defenses and will continue to vigorously defend itself in these actions. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from these claims.

On October 19, 2011, Golden Star, Inc. (Golden Star), plan administrator of the Golden Star Administrative Associates 401(k) Plan and Golden Star Bargaining Associates 401(k) Plan, filed a putative class action lawsuit in the U.S. District Court for the District of Massachusetts against the Company. Golden Star alleges, among other things, that the Company breached its alleged fiduciary duties while performing services to 401(k) plans and that certain of its actions constituted "Prohibited Transactions" under the Employee Retirement Income Security Act of 1974. The Company believes that it has numerous substantial defenses to the claims and will vigorously defend itself. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from this action.

Christina Chavez (Chavez) filed a putative class action complaint against the Company in April 2010. Chavez alleges that the Company breached its obligations to its term life policyholders in California by not paying dividends on those policies. The parties are engaged in active discovery. The Company believes it has substantial defenses and will continue to vigorously defend itself in these actions. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from this claim.

In 2009, numerous lawsuits (the Rochester Suits) were filed as putative class actions in connection with the investment performance of certain municipal bond funds advised by OFI and distributed by its subsidiary, OppenheimerFunds Distributor, Inc. The Rochester Suits raise claims under federal securities laws alleging that, among other things, the disclosure documents of the funds contained misrepresentations and omissions, that the investment policies of the funds were not followed and that the funds and other defendants violated federal securities laws and regulations and certain state laws. The Rochester Suits have been consolidated into seven groups, one for each of the funds, in the U.S. district court in Colorado. Amended complaints and motions to dismiss were filed. In October 2011, the court issued an order granting and denying in part defendants' motion to dismiss the suits. In January 2012, the court granted a stipulated scheduling and discovery order in these actions. In September 2012, defendants opposed plaintiffs' July 2012 motion for class certification and filed motions for partial summary judgment in several of the Rochester Suits. In March 2013, the court denied one of the defendants' motions for partial summary judgment; defendants' second motion, which seeks dismissal of plaintiffs' "leverage ratio" claims, is still pending. In July 2013, the parties to six of the Rochester Suits reached an agreement in principle to settle those suits, and in August 2013, the parties executed a memorandum of understanding memorializing their agreement. The proposed settlement is subject to various contingencies, including execution of stipulations of settlement in each of the six actions and approval by the court. Approval of the proposed settlement also requires that a sufficient number of class members approve the settlement to induce defendants to proceed with it. In the opinion of management, the settlement will not have a significant financial impact on the Company. The settlement, if given effect, would not settle a seventh suit. The court has stayed depositions in that suit pending approval of the proposed settlement. Because of these remaining uncertainties, management believes that no reasonable estimate can be made at this time, with respect to this suit, regarding the potential liability, if any, or the amount or range of any loss that may result from this claim.

In May 2009, the Company was named as a defendant in a private action related to certain losses in a bank owned life insurance (BOLI) policy issued by the Company. The plaintiff alleges, among other things, fraud, breach of contract and breach of fiduciary duty claims against the Company, and it seeks to recover losses arising from investments pursuant to the BOLI policy. The Company believes it has substantial defenses and will continue to vigorously defend itself in this action. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from this claim.

In July 2012, Karen Bacchi filed a putative class action complaint against the Company in federal court alleging that the Company breached its contracts by allegedly failing to distribute surplus in excess of the statutorily prescribed limit. The matter is in the initial pleading stages. The Company believes that it has substantial defenses and will vigorously defend itself. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from this claim.

In July 2012, members of the Keros family filed a putative class action complaint against the Company and its directors in federal court alleging breach of fiduciary duty related to an alleged violation of Massachusetts law

NOTES TO FINANCIAL STATEMENTS

concerning domestic mutual insurance company voting practices. The Company and directors' motions to dismiss were granted, in their entirety, on August 5, 2013. The plaintiffs have filed their notice of appeal of the court's dismissal. No reasonable estimate can be made at this time regarding the potential liability, if any, or the amount or range of any loss that may result from this claim.

f. **Regulatory matters:**

The Company is subject to governmental and administrative proceedings and regulatory inquiries, examinations and investigations in the ordinary course of its business. In connection with regulatory inquiries, examinations and investigations, the Company has been contacted by various regulatory agencies including, among others, the Securities and Exchange Commission, the U.S. Department of Labor and various state insurance departments and state attorneys general. The Company has cooperated fully with these regulatory agencies with regard to their inquiries, examinations and investigations and has responded to information requests and comments.

Market volatility in the financial services industry over the last several years has contributed to increased scrutiny of the entire financial services industry. Therefore, the Company believes that it is reasonable to expect that proceedings, regulatory inquiries, examinations and investigations into the insurance and financial services industries will continue for the foreseeable future. Additionally, new industry-wide legislation, rules and regulations could significantly affect the insurance and financial services industries as a whole. It is the opinion of management that the ultimate resolution of these regulatory inquiries, examinations, investigations, legislative and regulatory changes of which we are aware will not materially impact the Company's financial position or liquidity. However, the outcome of a particular matter may be material to the Company's operating results for a particular period depending upon, among other factors, the financial impact of the matter and the level of the Company's income for the period.

Note 15 – Leases

In September 2013, the Company entered into a sale-leaseback transaction with an unrelated party to sell and leaseback certain fixed assets with a book value of \$120 million which resulted in no gain or loss. This lease is classified as an operating lease with a five year term and annual lease payments of approximately \$25 million. At the end of the lease, the Company has the option of purchasing the underlying assets at fair value.

Note 16 – Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk - No significant changes

Note 17 – Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities

- a. Transfers of receivables reported as sales – No significant changes
- b. Transfer and servicing of financial assets – No significant changes
- c. Wash sales:
 - (1) In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days of the sale date.
 - (2) The Company did not sell any securities with the NAIC Designation 3 or below through the third quarter ended September 30, 2013 that were reacquired within 30 days of the sale date.

Note 18 – Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans - No significant changes

Note 19 – Direct Premium Written/Produced By Managing General Agents/Third Party Administrators - No significant changes

NOTES TO FINANCIAL STATEMENTS

Note 20 – Fair Value Measurements

a. Fair value as defined and unique level descriptions – No significant changes

1. The following presents the Company's fair value hierarchy for assets and liabilities that are carried at fair value:

	September 30, 2013			
	Level 1	Level 2	Level 3	Total
	(In Millions)			
Financial assets:				
Bonds:				
All other governments	\$ -	\$ 1	\$ -	\$ 1
Industrial and miscellaneous	-	2	21	23
Parent, subsidiaries and affiliates	-	160	-	160
Preferred stocks	-	-	1	1
Common stock - unaffiliated	401	399	204	1,004
Common stock - affiliated ⁽¹⁾	69	487	365	921
Cash equivalents and short-term investments ⁽²⁾	-	1,867	-	1,867
Separate account assets	36,641	18,298	462	55,401
Derivatives:				
Interest rate swaps	-	6,071	-	6,071
Options	-	230	-	230
Currency swaps	-	82	-	82
Forward contracts	-	63	-	63
Credit default swaps	-	11	-	11
Total financial assets carried at fair value	\$ 37,111	\$ 27,671	\$ 1,053	\$ 65,835
Financial liabilities:				
Securities sold under agreements to repurchase	\$ -	\$ 3,458	\$ -	\$ 3,458
Derivatives:				
Interest rate swaps	-	4,408	-	4,408
Options	-	21	-	21
Currency swaps	-	111	-	111
Forward contracts	-	66	-	66
Credit default swaps	-	13	-	13
Total financial liabilities carried at fair value	\$ -	\$ 8,077	\$ -	\$ 8,077

⁽¹⁾Does not include MMHLLC, which had a statutory carrying value of \$4,352 million, and C.M. Life Insurance Company, which had a statutory carrying value of \$1,044 million.

⁽²⁾Does not include cash of \$497 million.

The Company reviews the fair value hierarchy classifications each reporting period. Changes in the observability of the valuation attributes and the level of market activity may result in a reclassification of certain financial assets or liabilities between fair value hierarchy classifications. Such reclassifications are reported as transfers between levels at the beginning fair value for the reporting period in which the changes occur. During the nine months ended, September 30, 2013, \$170 million of equity securities were transferred between the Level 1 and Level 2 measurement categories.

NOTES TO FINANCIAL STATEMENTS

		December 31, 2012			
		Level 1	Level 2	Level 3	Total
		(In Millions)			
Financial assets:					
Bonds:					
Industrial and miscellaneous	\$	-	\$ 14	\$ 12	\$ 26
Parent, subsidiaries and affiliates		-	3	-	3
Common stock - unaffiliated		620	59	155	834
Common stock - affiliated ⁽¹⁾		-	363	180	543
Cash equivalents and short-term investments ⁽²⁾		-	2,087	-	2,087
Separate account assets		35,306	16,524	510	52,340
Derivatives:					
Interest rate swaps		-	2,403	-	2,403
Options		-	305	-	305
Currency swaps		-	121	-	121
Forward contracts		-	16	-	16
Credit default swaps		-	13	-	13
Total financial assets carried at fair value	\$	35,926	\$ 21,908	\$ 857	\$ 58,691
Financial liabilities:					
Securities sold under agreements to repurchase	\$	-	\$ 3,822	\$ -	\$ 3,822
Derivatives:					
Interest rate swaps		-	156	-	156
Options		-	(4)	-	(4)
Currency swaps		-	50	-	50
Forward contracts		-	-	-	-
Credit default swaps		-	-	-	-
Total financial liabilities carried at fair value	\$	-	\$ 4,024	\$ -	\$ 4,024

⁽¹⁾ Does not include MMHLLC, which had a statutory carrying value of \$4,271 million, and C.M. Life Insurance Company, which had a statutory carrying value of \$961 million.

⁽²⁾ Does not include cash of \$729 million.

For the year ended December 31, 2012 there were no significant transfers between Level 1 and Level 2.

2. The following presents changes in the Company's Level 3 financial instruments that are carried at fair value.

	Balance as of 01/01/2013	Transfers ⁽¹⁾		Gains (Losses) in Net Income	Gains (Losses) in Surplus	Purchases	Issuances	Sales	Settlements ⁽²⁾	Balance as of 09/30/2013
	(In Millions)									
Financial assets:										
Bonds:										
Industrial and miscellaneous	\$ 12	\$ 21	\$ -	\$ (3)	\$ 1	\$ 6	\$ 1	\$ -	\$ (17)	\$ 21
Preferred stock	-	2	-	13	-	-	-	(14)	-	1
Common stock - unaffiliated	155	-	-	-	(15)	53	19	(7)	(1)	204
Common stock - affiliated	180	-	-	-	(5)	15	190	-	(15)	365
Separate account assets	510	-	-	91	-	59	-	(314)	116	462
Total financial assets	\$ 857	\$ 23	\$ -	\$ 101	\$ (19)	\$ 133	\$ 210	\$ (335)	\$ 83	\$ 1,053

⁽¹⁾ Transfers include assets that are either no longer carried at fair value, or have just begun to be carried at fair value, such as assets with no level changes but change in lower of cost or market carrying basis.

⁽²⁾ Real estate fair value is carried net of encumbrances on the Page 2 Assets and the change in encumbrances are included in the settlements within separate account assets.

	Balance as of 01/01/2012	Transfers ⁽¹⁾		Gains (Losses) in Net Income	Gains (Losses) in Surplus	Purchases	Issuances	Sales	Settlements ⁽²⁾	Balance as of 12/31/2012
	(In Millions)									
Financial assets:										
Bonds:										
Industrial and miscellaneous	\$ 16	\$ 12	\$ -	\$ (16)	\$ 5	\$ 8	\$ 16	\$ (3)	\$ (26)	\$ 12
Common stock - unaffiliated	166	-	-	8	(10)	-	-	(7)	(2)	155
Common stock - affiliated	305	-	-	26	10	144	-	(305)	-	180
Separate account assets	396	91	-	37	-	69	-	(175)	92	510
Total financial assets	\$ 883	\$ 103	\$ -	\$ 55	\$ 5	\$ 221	\$ 16	\$ (490)	\$ 64	\$ 857

⁽¹⁾ Transfers include assets that are either no longer carried at fair value, or have just begun to be carried at fair value, such as assets with no level changes but change in lower of cost or market carrying basis.

⁽²⁾ Real estate fair value is carried net of encumbrances on the Page 2 Assets and the change in encumbrances are included in the settlements within separate account assets.

- Fair value hierarchy classifications – No significant changes
- Valuation techniques and inputs – No significant changes
- Derivative assets and liabilities fair value disclosures – No significant changes

b. The Company provides additional fair value information in Notes 1, 5, 8, 21, 32 and 34 on an annual basis.

NOTES TO FINANCIAL STATEMENTS

- c. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

September 30, 2013						
	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Not Practicable (Carrying Value)
	(In Millions)					
Financial assets:						
Bonds:						
U. S. government and agencies	\$ 6,967	\$ 6,368	\$ -	\$ 6,958	\$ 10	\$ -
All other governments	228	209	-	198	30	-
States, territories and possessions	1,875	1,847	-	1,864	11	-
Special revenue	4,905	4,357	-	4,905	-	-
Industrial and miscellaneous	49,823	48,142	-	32,693	17,130	-
Parent, subsidiaries and affiliates	5,269	4,980	-	1,517	3,752	-
Preferred stocks	503	489	-	87	416	-
Common stocks - unaffiliated	1,004	1,004	401	399	204	-
Common stocks - affiliated ⁽¹⁾	921	921	69	487	365	-
Mortgage loans - commercial	14,600	14,326	-	-	14,600	-
Mortgage loans - residential	1,758	1,794	-	-	1,758	-
Cash, cash equivalents and short-term investments	2,364	2,364	497	1,867	-	-
Separate account assets	55,401	55,401	36,641	18,298	462	-
Derivatives:						
Interest rate swaps	6,071	6,071	-	6,071	-	-
Options	230	230	-	230	-	-
Currency swaps	82	82	-	82	-	-
Forward contracts	63	63	-	63	-	-
Credit default swaps	16	11	-	16	-	-
Financial liabilities:						
Commercial paper	250	250	-	250	-	-
Securities sold under agreements to repurchase	3,458	3,458	-	3,458	-	-
Group annuity contracts and funding agreements	22,465	21,170	-	-	22,465	-
Individual annuity contracts	6,485	5,701	-	-	6,485	-
Supplementary contracts	1,036	1,035	-	-	1,036	-
Derivatives:						
Interest rate swaps	4,735	4,408	-	4,735	-	-
Options	21	21	-	21	-	-
Currency swaps	111	111	-	111	-	-
Forward contracts	66	66	-	66	-	-
Credit default swaps	13	13	-	13	-	-

⁽¹⁾ Does not include MMHLLC, which had a statutory carrying value of \$4,352 million as of September 30, 2013, and C.M. Life Insurance Company, which had a statutory carrying value of \$1,044 million as of September 30, 2013.

NOTES TO FINANCIAL STATEMENTS

	December 31, 2012						
	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Not Practicable (Carrying Value)	
	(In Millions)						
Financial assets:							
Bonds:							
U. S. government and agencies	\$ 8,796	\$ 7,654	\$ -	\$ 8,783	\$ 13	\$ -	
All other governments	164	126	-	133	31	-	
States, territories and possessions	1,641	1,449	-	1,641	-	-	
Special revenue	4,945	3,983	-	4,945	-	-	
Industrial and miscellaneous	42,199	38,419	-	26,930	15,269	-	
Parent, subsidiaries and affiliates	5,473	5,260	-	1,433	4,040	-	
Preferred stocks	358	336	-	73	285	-	
Common stock - unaffiliated	834	834	620	59	155	-	
Common stock - affiliated ⁽¹⁾	543	543	-	363	180	-	
Mortgage loans - commercial	12,147	11,812	-	-	12,147	-	
Mortgage loans - residential	2,162	2,145	-	-	2,162	-	
Cash, cash equivalents and short-term investments	2,816	2,816	729	2,087	-	-	
Separate account assets	52,340	52,340	35,306	16,524	510	-	
Derivatives:							
Interest rate swaps	2,382	2,403	-	2,382	-	-	
Options	305	305	-	305	-	-	
Currency swaps	121	121	-	121	-	-	
Forward contracts	16	16	-	16	-	-	
Credit default swaps	13	13	-	13	-	-	
Financial liabilities:							
Commercial paper	250	250	-	250	-	-	
Securities sold under agreements to repurchase	3,822	3,822	-	3,822	-	-	
Group annuity contracts and funding agreements	12,937	11,660	-	-	12,937	-	
Individual annuity contracts	6,129	5,154	-	-	6,129	-	
Supplementary contracts	1,021	1,020	-	-	1,021	-	
Derivatives:							
Interest rate swaps	157	156	-	157	-	-	
Options	(4)	(4)	-	(4)	-	-	
Currency swaps	50	50	-	50	-	-	
Forward contracts	-	-	-	-	-	-	
Credit default swaps	-	-	-	-	-	-	

⁽¹⁾Does not include MMHLLC, which had a statutory carrying value of \$4,271 million as of December 31, 2012, and C.M. Life Insurance Company, which had a statutory carrying value of \$961 million as of December 31, 2012.

- d. As of September 30, 2013 and December 31, 2012, the Company had no investments where it was not practicable to estimate fair value.

Note 21 – Other Items

- a. Extraordinary items – No significant changes
- b. Troubled debt restructuring – No significant changes
- c. Other disclosures:

Common stocks of unconsolidated subsidiaries, primarily MMHLLC, are accounted for using the statutory equity method. The Company accounts for the value of its investment in its subsidiary, MMHLLC, at its underlying U.S. GAAP equity value adjusted to remove certain nonadmitted and intangible assets, as well as a portion of its noncontrolling interests (NCI) and appropriated retained earnings (ARE), after consideration of MMHLLC's fair value and the Company's capital levels. The Division has affirmed the statutory recognition of the Company's application of the NCI guidelines in MMHLLC's statutory carrying value. However, the Company has limited this recognition to \$2,135 million and \$2,165 million as of September 30, 2013 and December 31, 2012, respectively. The current fair value of MMHLLC remains significantly greater than its statutory carrying amount.
- d. Reasonably possible uncollectible balances - No significant changes
- e. Business interruption insurance recoveries - No significant changes
- f. State transferrable tax credits - No significant changes
- g. Subprime mortgage related risk exposure:
 - (1) No significant changes
 - (2) No significant changes

NOTES TO FINANCIAL STATEMENTS

(3) Direct exposure through other investments:

Residential mortgage-backed securities risk exposure:

As of September 30, 2013 and December 31, 2012, the Company did not have any direct subprime exposure through purchases of unsecuritized whole-loan pools.

The actual cost reduced by paydowns, carrying value, fair value and related gross realized losses from OTTI of the Company's investments with significant Alt-A and subprime exposure were as follows:

Alt-A:	September 30, 2013			Nine Months Ended September 30, 2013
	Actual Cost	Carrying Value	Fair Value	OTTI
	(In Millions)			
a. Residential mortgage-backed securities	\$ 1,154	\$ 796	\$ 913	\$ (4)
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	-	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	92	63	72	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 1,246</u>	<u>\$ 859</u>	<u>\$ 985</u>	<u>\$ (4)</u>

Subprime:	September 30, 2013			Nine Months Ended September 30, 2013
	Actual Cost	Carrying Value	Fair Value	OTTI
	(In Millions)			
a. Residential mortgage-backed securities	\$ 791	\$ 628	\$ 682	\$ (2)
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	3	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	37	27	29	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 831</u>	<u>\$ 655</u>	<u>\$ 711</u>	<u>\$ (2)</u>

* The Company's SCA, C.M. Life, has investments in Alt-A and subprime mortgages, as does C.M. Life's SCA, MML Bay State. These investments comprise less than 1% of the Company's invested assets.

Alt-A:	December 31, 2012			Year Ended December 31, 2012
	Actual Cost	Carrying Value	Fair Value	OTTI
	(In Millions)			
a. Residential mortgage-backed securities	\$ 1,667	\$ 1,136	\$ 1,183	\$ (79)
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	-	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	130	89	92	(6)
f. Other assets	-	-	-	-
g. Total	<u>\$ 1,797</u>	<u>\$ 1,225</u>	<u>\$ 1,275</u>	<u>\$ (85)</u>

NOTES TO FINANCIAL STATEMENTS

	December 31, 2012			Year Ended December 31, 2012
Subprime:	Actual Cost	Carrying Value	Fair Value	OTTI
	(In Millions)			
a. Residential mortgage-backed securities	\$ 725	\$ 532	\$ 536	\$ (11)
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	3	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	40	30	29	-
f. Other assets	-	-	-	-
g. Total	\$ 768	\$ 562	\$ 565	\$ (11)

* The Company's SCA, C.M. Life, has investments in Alt-A and subprime mortgages, as does C.M. Life's SCA, MML Bay State. These investments comprise less than 1% of the Company's invested assets.

- (4) The Company has no underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty insurance coverage.

- h. Retained asset accounts – No significant changes
- i. Business risks

Investment and interest rate risks

As interest rates increase, certain securities may experience slower pay-down and prepayment speeds than assumed at purchase, impacting the expected maturity of these securities and the ability to reinvest the proceeds at the higher yields. Rising interest rates may also result in a decrease in the fair value of the investment portfolio. As interest rates decline, certain securities may experience greater pay-down and prepayment speeds from what was assumed at purchase. During such periods, the Company is at risk of lower net investment income as it may not be able to reinvest the proceeds at comparable yields. Declining interest rates may also increase the fair value of the investment portfolio.

Credit and other market risks

Housing market trends began to improve in May 2012. Real estate values are up approximately 12.4% nationally in 2013 according to the Case-Shiller index. Increased demand and slowing rates of foreclosures and delinquencies have improved the supply/demand fundamentals. There are regional differences in price performance that are likely to continue. The rate of foreclosure resolutions remains low but is improved from post-crisis bottoms.

Liquidity for securities issued in 2008 and earlier has been good. During the year, prices improved sharply due to a dearth of supply and improved housing market expectations. Profit taking began in mid-May 2013 as loss adjusted yields began to widen from very tight levels. More recently, prices have been fairly stable, although they are below their peaks reached earlier this year.

Solid real estate fundamentals are supporting pricing and rent growth expectations, though the recovery is still uneven and susceptible to downside risks. Current conditions reflect improving employment and persistently strong investor demand for core real estate in gateway markets, particularly apartments and downtown offices, as investors seek to benefit from projected increases in rents and occupancy. However, concerns over the Federal Reserve scaling back Treasury and MBS purchases has added to financial market volatility and pushed long-term treasury rates higher.

Despite the recent passage of legislation funding the federal government and increasing the U.S. debt ceiling, uncertainty related to the U.S. fiscal situation and economic stability remains. These uncertainties continue to be factors for the Company's investment portfolio.

Note 22 – Events Subsequent

The Company has evaluated subsequent events through November 6, 2013, the date the financial statements were available to be issued, and no events have occurred subsequent to the balance sheet date and before the date of evaluation that would require disclosure.

Note 23 – Reinsurance

- a. Ceded Reinsurance Report:
- Section 1 - General Interrogatories – No significant changes
- Section 2 - Ceded Reinsurance Report - Part A – No significant changes
- Section 3 - Ceded Reinsurance Report - Part B:
- (1) No significant changes
 - (2) On January 1, 2013, the Company entered into an indemnity reinsurance agreement to reinsure 100% of the Retirement Plans Group (RPG). The reinsurance agreement contains coinsurance and modified coinsurance features. Under the agreement, the Company indemnifies The Hartford for \$9.2 billion of policyholders' reserves and liabilities for deposit-type contracts, using coinsurance, and \$26.3 billion of separate account liabilities using modified coinsurance. In addition, the Company reinsured contracts written on The Hartford's policy form by the Company's Retirement Services Division during the post close period, which is expected to be 12 months. On execution of the coinsurance feature, the Company received invested assets with a fair value of \$9.4 billion and \$383 million of other assets, net of a ceding commission of \$355 million, and assumed \$5.3 billion of group annuities within policyholders' reserves, \$3.9 billion of liabilities for deposit-type contracts and \$879 million of other liabilities. The \$9.4 billion of actuarial reserves have withdrawal characteristics that are primarily subject to withdrawal with fair value adjustment and at book value without adjustment. Under the modified coinsurance feature, the separate

NOTES TO FINANCIAL STATEMENTS

account assets and related reserves were not transferred to or held by the Company. This transaction enables the Company to build its retirement business, add complementary markets and distribution capabilities, and nearly double the number of retirement plan participants it serves to approximately three million.

For the nine months ended September 30, 2013, the Company has recorded \$1.4 billion of premium pursuant to the reinsurance agreement.

As a result of the agreement to reinsure RPG, group annuities in the policyholders' reserves increased \$5.3 billion with a range of interest rates of 3.3% - 9.5% and the liabilities for deposit-type contracts increased \$4.2 billion with a range of interest rates of 3.3% - 9.5% as of September 30, 2013.

b-c. No significant changes

Note 24 – Retrospectively Rated Contracts and Contracts Subject to Redetermination - No significant changes

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses - No significant changes

Note 26 – Intercompany Pooling Arrangements - No significant changes

Note 27 – Structured Settlements - No significant changes

Note 28 – Health Care Receivables - No significant changes

Note 29 – Participating Policies - No significant changes

Note 30 – Premium Deficiency Reserves - No significant changes

Note 31 – Reserves for Life Contracts and Annuity Contracts - No significant changes

Note 32 – Analysis of Annuity Actuarial Reserves and Deposit Liabilities by Withdrawal Characteristics - No significant changes

Note 33 – Premium and Annuity Considerations Deferred and Uncollected - No significant changes

Note 34 – Separate Accounts - No significant changes

Note 35 – Loss/Claim Adjustment Expenses - No significant changes

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

Note 36 – Impairment Listing for Loan-Backed and Structured Securities

The following are the total cumulative adjustments and impairments for loan-backed and structured securities since July 1, 2009:

Period Ended	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
September 30, 2013	\$ 81,945,730.49	\$ -	\$ 81,945,730.49	\$ 80,589,482.19	\$ (1,356,248.30)	\$ 80,589,482.19	\$ 77,049,314.39
June 30, 2013	147,215,936.13	-	147,215,936.13	142,140,571.53	(5,075,364.60)	142,140,571.53	130,973,022.96
March 31, 2013	194,772,024.52	-	194,772,024.52	188,372,088.50	(6,399,936.02)	188,372,088.50	176,678,910.26
December 31, 2012	378,096,660.04	-	378,096,660.04	366,323,110.21	(11,773,549.83)	366,323,110.21	333,086,072.58
September 30, 2012	816,573,456.06	-	816,573,456.06	788,350,822.82	(28,222,633.24)	788,350,822.82	697,683,288.85
June 30, 2012	912,025,936.52	-	912,025,936.52	890,494,220.76	(21,531,715.76)	890,494,220.76	708,872,106.49
March 31, 2012	1,095,018,529.18	-	1,095,018,529.18	1,058,132,041.09	(36,886,488.09)	1,058,132,041.09	841,095,012.78
December 31, 2011	1,090,904,993.06	-	1,090,904,993.06	1,056,761,288.41	(34,211,747.00)	1,056,761,288.41	754,310,837.90
September 30, 2011	762,320,631.78	-	762,320,631.78	738,510,047.63	(23,810,584.15)	738,510,047.63	546,494,231.96
June 30, 2011	1,130,732,656.14	-	1,130,732,656.14	1,078,535,670.23	(52,196,985.91)	1,078,535,670.23	839,143,290.12
March 31, 2011	1,097,705,351.09	-	1,097,705,351.09	1,068,852,203.67	(28,853,147.42)	1,068,852,203.67	816,688,348.33
December 31, 2010	968,742,508.30	-	968,742,508.30	950,111,416.81	(18,631,091.49)	950,111,416.81	708,895,636.97
September 30, 2010	915,728,029.86	-	915,728,029.86	889,896,058.18	(25,831,971.68)	889,896,058.18	673,462,492.71
June 30, 2010	1,362,887,892.31	-	1,362,887,892.31	1,335,628,211.52	(27,259,680.79)	1,335,628,211.52	975,241,505.93
March 31, 2010	1,471,905,695.71	-	1,471,905,695.71	1,391,337,542.96	(80,568,152.75)	1,391,337,542.96	1,015,645,802.04
December 31, 2009	1,349,124,213.70	-	1,349,124,213.70	1,290,817,167.68	(58,307,046.02)	1,290,817,167.68	852,088,739.42
September 30, 2009	2,953,442,689.02	(106,853,708.32)	2,846,588,980.70	2,700,948,264.43	(145,640,716.27)	2,700,948,264.43	1,692,409,639.54
Totals		\$ (106,853,708.32)			\$ (606,557,059.32)		

The following is the impairment listing for loan-backed and structured securities for the three months ended September 30, 2013:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
04544TAB7	\$ 79,991.43	\$ -	\$ 79,991.43	\$ 16,105.39	\$ (63,886.04)	\$ 16,105.39	\$ 47,854.57
05948JAA0	323,644.40	-	323,644.40	322,161.12	(1,483.28)	322,161.12	319,083.89
12479DAC2	4,722,262.30	-	4,722,262.30	4,184,086.44	(538,175.86)	4,184,086.44	3,635,191.89
1248MPAC8	5,610,030.00	-	5,610,030.00	5,563,905.00	(46,125.00)	5,563,905.00	4,838,125.05
45667WAC2	851.16	-	851.16	657.73	(193.43)	657.73	380.05
525221AW7	20,032.95	-	20,032.95	298.02	(19,734.93)	298.02	98,298.62
61749BAB9	304,677.44	-	304,677.44	280,424.46	(24,252.98)	280,424.46	259,501.31
61755AAB2	5,467.78	-	5,467.78	5,213.41	(254.37)	5,213.41	5,219.39
65106FAB8	5,893,180.49	-	5,893,180.49	5,852,705.65	(40,474.84)	5,852,705.65	5,797,707.71
77277LAF4	37,029,684.32	-	37,029,684.32	36,675,600.78	(354,083.54)	36,675,600.78	35,949,160.80
77277LAH0	1,843,143.48	-	1,843,143.48	1,825,871.10	(17,272.38)	1,825,871.10	3,458,523.60
77277LAJ6	26,097,916.29	-	26,097,916.29	25,853,379.04	(244,537.25)	25,853,379.04	22,621,667.04
86359ACD3	14,848.45	-	14,848.45	9,074.05	(5,774.40)	9,074.05	18,600.47
Totals	\$ 81,945,730.49	\$ -	\$ 81,945,730.49	\$ 80,589,482.19	\$ (1,356,248.30)	\$ 80,589,482.19	\$ 77,049,314.39

The following is the impairment listing for loan-backed and structured securities for the three months ended June 30, 2013:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00442KAD3	\$ 2,862,185.70	\$ -	\$ 2,862,185.70	\$ 2,847,813.75	\$ (14,371.95)	\$ 2,847,813.75	\$ 2,540,147.17
00444AC0	1,811,707.29	-	1,811,707.29	1,452,295.05	(359,412.24)	1,452,295.05	1,270,758.17
026929AD1	5,519,507.19	-	5,519,507.19	5,164,744.05	(354,763.14)	5,164,744.05	5,328,699.48
07325YAB4	3,112,030.19	-	3,112,030.19	3,067,596.18	(44,434.01)	3,067,596.18	2,217,726.96
07388UAB6	1,015,362.75	-	1,015,362.75	983,853.90	(31,508.85)	983,853.90	950,464.97
07401LAA1	8,647,880.67	-	8,647,880.67	8,603,423.71	(44,456.96)	8,603,423.71	8,224,619.72
1248MPAB0	6,979,297.79	-	6,979,297.79	6,686,930.00	(292,367.79)	6,686,930.00	6,237,074.20
1248MPAC8	9,279,020.00	-	9,279,020.00	8,927,580.00	(351,440.00)	8,927,580.00	8,138,041.61
1248MPAH7	7,823.54	-	7,823.54	10.06	(7,813.48)	10.06	291,248.16
125435AA5	8,007,199.62	-	8,007,199.62	7,945,131.04	(62,068.58)	7,945,131.04	7,065,883.43
12668AAY1	836.29	-	836.29	604.94	(231.35)	604.94	313.39
12669GKH3	8,266,418.71	-	8,266,418.71	7,126,611.64	(1,139,807.07)	7,126,611.64	8,943,620.22
22943HAD8	5,731,143.26	-	5,731,143.26	5,709,513.09	(21,630.17)	5,709,513.09	3,845,172.00
25151AAA9	3,149,913.44	-	3,149,913.44	2,987,164.65	(162,748.79)	2,987,164.65	3,071,275.38
26441EAC5	182,800.00	-	182,800.00	137,500.00	(45,300.00)	137,500.00	137,500.00
362341L49	3,925,128.57	-	3,925,128.57	3,874,010.93	(51,117.64)	3,874,010.93	3,195,980.78
39538WHF8	7,368,122.65	-	7,368,122.65	7,244,676.25	(123,446.40)	7,244,676.25	7,172,879.50
41161PSK0	3,150,010.83	-	3,150,010.83	3,058,778.87	(91,231.96)	3,058,778.87	2,922,577.50
46630KAA4	682,175.43	-	682,175.43	676,151.76	(6,023.67)	676,151.76	588,654.12

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
61749BAB9	\$ 324,674.18	\$ -	\$ 324,674.18	\$ 302,702.90	\$ (21,971.28)	\$ 302,702.90	\$ 272,486.13
61750MAB1	28,551.95	-	28,551.95	27,394.67	(1,157.28)	27,394.67	22,964.62
61755AAB2	6,702.75	-	6,702.75	5,999.04	(703.71)	5,999.04	5,208.50
77277LAF4	37,914,893.16	-	37,914,893.16	37,029,684.30	(885,208.86)	37,029,684.30	33,591,915.00
77277LAH0	1,886,324.40	-	1,886,324.40	1,843,143.48	(43,180.92)	1,843,143.48	3,230,442.00
77277LAJ6	26,706,041.82	-	26,706,041.82	26,097,916.30	(608,125.52)	26,097,916.30	21,138,327.00
78402TAD8	505,674.06	-	505,674.06	225,513.23	(280,160.83)	225,513.23	418,357.71
86359ACD3	144,509.89	-	144,509.89	113,827.74	(30,682.15)	113,827.74	150,685.24
Totals	\$ 147,215,936.13	\$ -	\$ 147,215,936.13	\$ 142,140,571.53	\$ (5,075,364.60)	\$ 142,140,571.53	\$ 130,973,022.96

The following is the impairment listing for loan-backed and structured securities for the three months ended March 31, 2013:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00442KAD3	\$ 3,000,717.17	\$ -	\$ 3,000,717.17	\$ 2,955,878.99	\$ (44,838.18)	\$ 2,955,878.99	\$ 2,710,630.46
02147DAV3	20,019.38	-	20,019.38	13,898.83	(6,120.55)	13,898.83	7,668.37
02660TGS6	5,166,461.70	-	5,166,461.70	5,042,505.13	(123,956.57)	5,042,505.13	4,886,126.24
02660THL0	735,213.74	-	735,213.74	718,951.48	(16,262.26)	718,951.48	701,370.78
05946XYP2	661,851.06	-	661,851.06	648,858.17	(12,992.89)	648,858.17	616,878.67
05948JAA0	77,220.72	-	77,220.72	76,184.19	(1,036.53)	76,184.19	73,908.47
073879PA0	1,232,628.18	-	1,232,628.18	1,164,624.29	(68,003.89)	1,164,624.29	1,129,442.11
07401LAA1	9,319,361.00	-	9,319,361.00	9,281,564.74	(37,796.26)	9,281,564.74	8,970,214.86
1248MPAC8	10,010,615.65	-	10,010,615.65	9,279,020.00	(731,595.65)	9,279,020.00	8,192,007.20
1248MPAH7	113,333.17	-	113,333.17	7,944.13	(105,389.04)	7,944.13	214,889.58
126671UU8	43,909.99	-	43,909.99	42,665.95	(1,244.04)	42,665.95	39,467.94
12667GME0	11,348,520.47	-	11,348,520.47	11,227,660.79	(120,859.68)	11,227,660.79	11,112,922.09
12668A4B8	9,370,133.25	-	9,370,133.25	9,107,609.34	(262,523.91)	9,107,609.34	9,029,866.72
126694YM4	2,091,333.26	-	2,091,333.26	2,088,972.27	(2,360.99)	2,088,972.27	2,038,895.07
14453MAB0	5,079,283.51	-	5,079,283.51	5,016,823.57	(62,459.94)	5,016,823.57	4,802,099.09
18974BAA7	628,229.21	-	628,229.21	601,230.04	(26,999.17)	601,230.04	615,943.80
22546NAV6	3,726,890.39	-	3,726,890.39	649,149.30	(3,077,741.09)	649,149.30	649,037.62
22943HAD8	6,075,077.23	-	6,075,077.23	5,993,884.23	(81,193.00)	5,993,884.23	4,642,860.00
23244LAB7	1,751,307.03	-	1,751,307.03	1,543,667.45	(207,639.58)	1,543,667.45	1,134,940.80
23321P6A1	2,184,940.95	-	2,184,940.95	2,165,830.30	(19,110.65)	2,165,830.30	2,177,214.24
23332UDU5	12,588,142.21	-	12,588,142.21	12,385,338.92	(202,803.29)	12,385,338.92	12,418,814.69
362341L49	4,038,022.40	-	4,038,022.40	4,002,700.25	(35,322.15)	4,002,700.25	3,276,699.71
39539GAA0	2,856,147.82	-	2,856,147.82	2,782,480.81	(73,667.01)	2,782,480.81	2,826,038.50
40430HBH0	162.35	-	162.35	109.30	(53.05)	109.30	101.41
41164LAB5	7,711,915.86	-	7,711,915.86	7,655,426.24	(56,489.62)	7,655,426.24	7,462,954.25
43739EBJ5	6,504,187.80	-	6,504,187.80	6,435,384.82	(68,802.98)	6,435,384.82	6,032,458.24
45660LKW8	18,079,779.47	-	18,079,779.47	18,022,051.43	(57,728.04)	18,022,051.43	15,864,047.28
45660LYW3	2,372,769.82	-	2,372,769.82	2,291,590.55	(81,179.27)	2,291,590.55	2,062,698.67
456612AC4	10,876,730.02	-	10,876,730.02	10,787,010.05	(89,719.97)	10,787,010.05	10,545,750.71
466247XE8	3,976,148.48	-	3,976,148.48	3,935,773.09	(40,375.39)	3,935,773.09	3,718,198.53
46629BAR0	2,852,666.37	-	2,852,666.37	2,798,045.68	(54,620.69)	2,798,045.68	2,552,602.18
46630KAA4	770,022.33	-	770,022.33	768,628.53	(1,393.80)	768,628.53	680,676.85
525221GM3	2,221,910.15	-	2,221,910.15	2,177,468.51	(44,441.64)	2,177,468.51	2,109,164.67
525221HA8	15,523,309.02	-	15,523,309.02	15,400,250.25	(123,058.77)	15,400,250.25	13,711,703.44
576433G42	855,038.28	-	855,038.28	847,924.09	(7,114.19)	847,924.09	848,428.88
59024UAB7	929,407.25	-	929,407.25	918,437.15	(10,970.10)	918,437.15	926,705.06
61750MAB1	30,836.68	-	30,836.68	30,672.10	(164.58)	30,672.10	27,958.37
61755AAB2	9,419.34	-	9,419.34	8,121.27	(1,298.07)	8,121.27	6,759.62
65106FAB8	6,388,999.26	-	6,388,999.26	6,351,718.55	(37,280.71)	6,351,718.55	6,322,103.12
68400XAY6	103,043.01	-	103,043.01	102,041.69	(1,001.32)	102,041.69	96,273.00
76110W4J2	4,319.08	-	4,319.08	4,199.71	(119.37)	4,199.71	6,912.40
86358HHX0	684,331.03	-	684,331.03	676,606.52	(7,724.51)	676,606.52	676,555.32
86359ACE1	21,581.23	-	21,581.23	6,171.79	(15,409.44)	6,171.79	20,125.60
86359DUV7	903.27	-	903.27	854.15	(49.12)	854.15	934.22
86359LRW1	14,456,432.41	-	14,456,432.41	14,291,064.42	(165,367.99)	14,291,064.42	13,808,202.61
86363DAA9	6,907,687.46	-	6,907,687.46	6,856,223.37	(51,464.09)	6,856,223.37	6,686,938.82
92977YAY7	1,371,065.06	-	1,371,065.06	1,208,872.07	(162,192.99)	1,208,872.07	242,720.00
Totals	\$ 194,772,024.52	\$ -	\$ 194,772,024.52	\$ 188,372,088.50	\$ (6,399,936.02)	\$ 188,372,088.50	\$ 176,678,910.26

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

The following is the impairment listing for loan-backed and structured securities for the three months ended December 31, 2012:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
02146QAB9	\$ 9,320,782.36	\$ -	\$ 9,320,782.36	\$ 9,139,853.14	\$ (180,929.22)	\$ 9,139,853.14	\$ 9,069,355.10
05946XYB3	23,896.52	-	23,896.52	18,328.94	(5,567.58)	18,328.94	45,891.37
05946XYP2	708,902.34	-	708,902.34	682,357.82	(26,544.52)	682,357.82	601,121.02
06652DAA7	4,284,094.76	-	4,284,094.76	4,233,256.04	(50,838.72)	4,233,256.04	4,126,959.91
07325VAG9	1,562,840.35	-	1,562,840.35	1,529,749.86	(33,090.49)	1,529,749.86	1,469,093.82
07389PAY6	191,771.23	-	191,771.23	170,306.13	(21,465.10)	170,306.13	166,754.27
07389VAA5	1,230,347.36	-	1,230,347.36	1,126,193.29	(104,154.07)	1,126,193.29	1,152,071.57
12479DAC2	8,267,444.20	-	8,267,444.20	7,152,586.32	(1,114,857.88)	7,152,586.32	6,469,046.14
126671UU8	44,313.44	-	44,313.44	43,756.33	(557.11)	43,756.33	38,210.80
12667GME0	11,694,439.04	-	11,694,439.04	11,592,782.36	(101,656.68)	11,592,782.36	10,905,416.84
12668A4B8	9,701,082.41	-	9,701,082.41	9,654,594.78	(46,487.63)	9,654,594.78	8,935,378.57
12668BE33	10,096,780.94	-	10,096,780.94	9,907,738.06	(189,042.88)	9,907,738.06	9,708,068.67
126694YM4	2,239,453.44	-	2,239,453.44	2,147,349.96	(92,103.48)	2,147,349.96	1,976,788.89
12669FW82	134,544.20	-	134,544.20	132,368.49	(2,175.71)	132,368.49	127,727.95
12669GRM5	1,968,489.18	-	1,968,489.18	1,869,461.50	(99,027.68)	1,869,461.50	1,791,163.16
12669UBB5	536,100.79	-	536,100.79	326,581.52	(209,519.27)	326,581.52	383,993.09
14453MAB0	5,552,661.69	-	5,552,661.69	5,439,992.43	(112,669.26)	5,439,992.43	4,786,048.19
23332UCM4	387,038.04	-	387,038.04	377,798.71	(9,239.33)	377,798.71	375,416.10
23332UDU5	13,297,438.84	-	13,297,438.84	13,134,362.56	(163,076.28)	13,134,362.56	12,046,704.60
26410QAJ0	190,460.58	-	190,460.58	-	(190,460.58)	-	371,126.04
30251YAB4	5,976,882.17	-	5,976,882.17	5,948,065.42	(28,816.75)	5,948,065.42	5,857,460.84
362480AD7	8,077,813.86	-	8,077,813.86	8,028,051.94	(49,761.92)	8,028,051.94	6,894,111.89
36290PAK3	3,590,762.57	-	3,590,762.57	1,721,505.21	(1,869,257.36)	1,721,505.21	2,196,822.08
39538WBH0	516.93	-	516.93	294.08	(222.85)	294.08	282.55
39539GAA0	2,935,620.22	-	2,935,620.22	2,920,843.03	(14,777.19)	2,920,843.03	2,722,406.86
40430HBH0	950.38	-	950.38	606.90	(343.48)	606.90	497.76
41161PHC0	5,318,247.22	-	5,318,247.22	5,246,310.10	(71,937.12)	5,246,310.10	5,700,952.48
43739EBJ5	6,841,957.03	-	6,841,957.03	6,706,025.82	(135,931.21)	6,706,025.82	6,036,046.50
45660LKW8	18,512,127.82	-	18,512,127.82	18,445,313.61	(66,814.21)	18,445,313.61	15,401,797.82
45660LYW3	2,590,706.25	-	2,590,706.25	2,411,095.54	(179,610.71)	2,411,095.54	2,119,690.21
45660N5H4	4,085,597.66	-	4,085,597.66	4,012,584.48	(73,013.18)	4,012,584.48	4,461,277.13
45660NQ24	1,149,455.15	-	1,149,455.15	1,119,069.15	(30,386.00)	1,119,069.15	1,341,982.04
456612AC4	11,219,948.33	-	11,219,948.33	11,200,404.46	(19,543.87)	11,200,404.46	9,832,091.02
45667WAC2	36,139.55	-	36,139.55	25,798.22	(10,341.33)	25,798.22	36,452.51
466247XE8	4,224,775.79	-	4,224,775.79	4,092,034.06	(132,741.73)	4,092,034.06	3,755,498.69
525221CD7	86,864.53	-	86,864.53	53,770.04	(33,094.49)	53,770.04	72,870.52
525221GM3	2,332,635.06	-	2,332,635.06	2,282,935.45	(49,699.61)	2,282,935.45	2,081,491.82
525221HA8	16,401,997.61	-	16,401,997.61	16,037,388.46	(364,609.15)	16,037,388.46	13,826,098.75
55027AAU4	3,729,293.25	-	3,729,293.25	3,628,919.72	(100,373.53)	3,628,919.72	3,675,404.51
576433G42	5,898,844.31	-	5,898,844.31	5,847,440.62	(51,403.69)	5,847,440.62	5,588,376.26
57643LMP8	1,439,272.59	-	1,439,272.59	1,401,499.80	(37,772.79)	1,401,499.80	1,089,840.42
61750SAB8	360,603.45	-	360,603.45	355,501.66	(5,101.79)	355,501.66	306,408.53
61755AAB2	12,085.50	-	12,085.50	10,763.33	(1,322.17)	10,763.33	6,471.10
61915RBB1	5,115,963.20	-	5,115,963.20	5,095,290.01	(20,673.19)	5,095,290.01	4,889,505.50
64352VPC9	1,356.32	-	1,356.32	553.50	(802.82)	553.50	909.94
65106FAB8	6,747,113.12	-	6,747,113.12	6,718,870.11	(28,243.01)	6,718,870.11	6,212,824.70
66987XBV6	15,239.24	-	15,239.24	15,073.00	(166.24)	15,073.00	12,181.73
75114GAC3	13,704,671.98	-	13,704,671.98	13,346,662.61	(358,009.37)	13,346,662.61	12,424,345.12
75114HAK3	3,812,242.51	-	3,812,242.51	3,641,050.77	(171,191.74)	3,641,050.77	2,731,962.22
75405KAG3	6,044.09	-	6,044.09	5,050.66	(993.43)	5,050.66	4,232.78
760985NZ0	54,796.47	-	54,796.47	45,518.12	(9,278.35)	45,518.12	36,010.92
76110GE23	4,314,078.81	-	4,314,078.81	4,097,768.60	(216,310.21)	4,097,768.60	4,277,733.62
76110GG62	4,350,445.04	-	4,350,445.04	4,056,131.23	(294,313.81)	4,056,131.23	4,268,758.70
76110GYL9	1,105,529.94	-	1,105,529.94	1,103,557.87	(1,972.07)	1,103,557.87	1,077,493.80
76110GZQ7	5,722,933.68	-	5,722,933.68	5,075,857.52	(647,076.16)	5,075,857.52	5,242,199.68
761118WP9	8,227,539.35	-	8,227,539.35	7,987,880.27	(239,659.08)	7,987,880.27	7,801,974.68
77277LAF4	38,874,645.93	-	38,874,645.93	37,914,893.16	(959,752.77)	37,914,893.16	30,679,065.88
77277LAH0	1,933,141.62	-	1,933,141.62	1,886,324.40	(46,817.22)	1,886,324.40	2,969,324.97
77277LAJ6	27,368,866.47	-	27,368,866.47	26,706,041.82	(662,824.65)	26,706,041.82	19,305,363.39
79548KKQ6	854,016.55	-	854,016.55	853,654.62	(361.93)	853,654.62	765,383.55
81379EAA0	217,866.27	-	217,866.27	197,747.65	(20,118.62)	197,747.65	207,574.07
863579HM3	982.37	-	982.37	601.34	(381.03)	601.34	1,857.50
86358HHX0	727,295.32	-	727,295.32	704,800.36	(22,494.96)	704,800.36	658,168.59
86358HRL5	24,838.33	-	24,838.33	19,696.11	(5,142.22)	19,696.11	19,315.57
86358R5Q6	126,261.83	-	126,261.83	118,691.91	(7,569.92)	118,691.91	103,356.43
86359BU82	18,520.16	-	18,520.16	16,577.86	(1,942.30)	16,577.86	54,488.33
86359DUL9	135,684.06	-	135,684.06	133,404.84	(2,279.22)	133,404.84	119,675.19
86359DUV7	2,532.67	-	2,532.67	1,796.94	(735.73)	1,796.94	1,918.92
86359LRW1	15,323,951.25	-	15,323,951.25	15,048,489.07	(275,462.18)	15,048,489.07	13,732,523.78

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
86360JAN1	\$ 2,453,060.78	\$ -	\$ 2,453,060.78	\$ 2,436,076.21	\$ (16,984.57)	\$ 2,436,076.21	\$ 2,235,923.08
86360KAF5	24,834,345.35	-	24,834,345.35	24,356,935.40	(477,409.95)	24,356,935.40	22,639,394.94
86361HAA2	9,286,566.20	-	9,286,566.20	8,875,908.50	(410,657.70)	8,875,908.50	7,673,626.93
88157QAL2	573,449.81	-	573,449.81	532,347.23	(41,102.58)	532,347.23	1,443,040.60
89789KAC9	14,229.51	-	14,229.51	11,365.94	(2,863.57)	11,365.94	131,384.68
92977YAY7	1,678,839.27	-	1,678,839.27	1,364,044.54	(314,794.73)	1,364,044.54	255,144.00
93934FJQ6	11,668,823.78	-	11,668,823.78	11,625,486.02	(43,337.76)	11,625,486.02	11,113,685.96
984582AA4	2,544,809.82	-	2,544,809.82	2,153,322.68	(391,487.14)	2,153,322.68	2,445,054.44
Totals	\$ 378,096,660.04	\$ -	\$ 378,096,660.04	\$ 366,323,110.21	\$ (11,773,549.83)	\$ 366,323,110.21	\$ 333,086,072.58

The following is the impairment listing for loan-backed and structured securities for the three months ended September 30, 2012:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 85,000.00	\$ -	\$ 85,000.00	\$ 20,000.00	\$ (65,000.00)	\$ 20,000.00	\$ 20,000.00
004421TD5	1,385,825.15	-	1,385,825.15	1,315,875.19	(69,949.96)	1,315,875.19	1,270,167.00
00442KAD3	3,211,011.30	-	3,211,011.30	3,167,443.77	(43,567.53)	3,167,443.77	2,684,789.02
02146QAB9	9,869,919.23	-	9,869,919.23	9,669,849.28	(200,069.95)	9,669,849.28	8,971,526.82
02147DAB7	8,170,690.96	-	8,170,690.96	8,103,775.43	(66,915.53)	8,103,775.43	7,895,446.07
02150MAB1	13,116,031.08	-	13,116,031.08	12,887,551.15	(228,479.93)	12,887,551.15	13,011,475.43
02660TBF9	250,071.28	-	250,071.28	145,570.58	(104,500.70)	145,570.58	1,040,778.77
02660TGN7	6,430,479.32	-	6,430,479.32	6,123,949.20	(306,530.12)	6,123,949.20	5,452,232.79
02660TGS6	5,479,176.12	-	5,479,176.12	5,365,612.13	(113,563.99)	5,365,612.13	4,687,198.15
02660THL0	816,498.41	-	816,498.41	806,453.97	(10,044.44)	806,453.97	747,179.44
02660TJB0	16,520,049.00	-	16,520,049.00	15,272,638.61	(1,247,410.39)	15,272,638.61	13,968,184.79
02660XAD6	2,707,500.01	-	2,707,500.01	2,568,739.18	(138,760.83)	2,568,739.18	2,670,016.74
026929AD1	6,086,467.38	-	6,086,467.38	5,859,618.06	(226,849.32)	5,859,618.06	5,471,643.42
03072SPD1	277,474.17	-	277,474.17	275,809.52	(1,664.65)	275,809.52	231,738.26
040104QN4	1,985,075.16	-	1,985,075.16	1,970,762.96	(14,312.20)	1,970,762.96	1,714,152.18
040104TF8	65,161.17	-	65,161.17	65,126.38	(34.79)	65,126.38	58,698.30
040104TG6	94,912.11	-	94,912.11	94,841.58	(70.53)	94,841.58	88,066.79
05950DAA8	8,051,249.93	-	8,051,249.93	7,888,415.28	(162,834.65)	7,888,415.28	7,653,912.29
06652DAA7	4,595,312.46	-	4,595,312.46	4,431,432.75	(163,879.71)	4,431,432.75	4,108,675.87
07325VAG9	1,667,229.09	-	1,667,229.09	1,634,135.74	(33,093.35)	1,634,135.74	1,488,340.58
07386HKS9	336,273.33	-	336,273.33	333,104.11	(3,169.22)	333,104.11	300,323.23
07386HMP3	998,207.17	-	998,207.17	986,566.99	(11,640.18)	986,566.99	905,110.80
07389PAY6	307,671.02	-	307,671.02	195,762.30	(111,908.72)	195,762.30	164,832.50
07389VAA5	1,273,548.32	-	1,273,548.32	1,233,817.70	(39,730.62)	1,233,817.70	1,118,009.35
12489WQH0	111,963.43	-	111,963.43	95,819.61	(16,143.82)	95,819.61	565,519.20
1248MEAA7	5,909,561.79	-	5,909,561.79	5,454,185.36	(455,376.43)	5,454,185.36	3,737,977.61
1248MGAJ3	56,112.67	-	56,112.67	55,111.01	(1,001.66)	55,111.01	50,369.09
1248MPAH7	196,783.15	-	196,783.15	140,799.20	(55,983.95)	140,799.20	215,557.17
126670LP1	4,922,394.55	-	4,922,394.55	4,212,606.10	(709,788.45)	4,212,606.10	4,477,464.00
126670QZ4	287,161.36	-	287,161.36	242,980.15	(44,181.21)	242,980.15	258,375.50
126671UU8	47,238.91	-	47,238.91	47,087.75	(151.16)	47,087.75	39,359.86
12667GCB7	134,932.18	-	134,932.18	134,006.56	(925.62)	134,006.56	130,120.33
12667GME0	12,516,809.19	-	12,516,809.19	12,146,740.32	(370,068.87)	12,146,740.32	10,727,475.66
12667GR62	1,899,370.86	-	1,899,370.86	1,844,305.56	(55,065.30)	1,844,305.56	1,727,108.17
12667NAC2	190,099.57	-	190,099.57	187,708.98	(2,390.59)	187,708.98	186,799.06
12668A3Q6	5,220,563.07	-	5,220,563.07	5,166,712.20	(53,850.87)	5,166,712.20	5,114,745.39
12668ACZ6	2,617,490.20	-	2,617,490.20	2,572,255.18	(45,235.02)	2,572,255.18	2,290,023.95
12668AEV3	8,397,184.43	-	8,397,184.43	8,063,626.87	(333,557.56)	8,063,626.87	7,733,322.03
12668BB77	16,813,583.21	-	16,813,583.21	16,165,081.37	(648,501.84)	16,165,081.37	15,267,740.77
12668BE33	10,608,729.70	-	10,608,729.70	10,309,768.18	(298,961.52)	10,309,768.18	9,534,877.39
126694YM4	2,318,172.61	-	2,318,172.61	2,317,787.17	(385.44)	2,317,787.17	1,998,319.41
12669FW82	807,603.10	-	807,603.10	728,333.68	(79,269.42)	728,333.68	638,614.83
12669GKH3	9,297,064.84	-	9,297,064.84	9,157,301.52	(139,763.32)	9,157,301.52	10,063,598.74
12669GUR0	2,510,151.11	-	2,510,151.11	2,426,569.22	(83,581.89)	2,426,569.22	2,126,517.86
12669UBB5	577,383.54	-	577,383.54	543,260.47	(34,123.07)	543,260.47	406,123.72
14453MAB0	5,994,542.93	-	5,994,542.93	5,822,082.94	(172,459.99)	5,822,082.94	4,701,559.98
14454AAB5	1,800,461.12	-	1,800,461.12	1,677,036.58	(123,424.54)	1,677,036.58	1,591,708.24
14983CAA3	984,170.40	-	984,170.40	969,590.10	(14,580.30)	969,590.10	815,714.71
22540VG71	130,709.14	-	130,709.14	130,675.08	(34.06)	130,675.08	130,025.32
22541SXR4	1,512,132.28	-	1,512,132.28	1,422,602.72	(89,529.56)	1,422,602.72	1,188,789.95
23243AAD8	702,229.95	-	702,229.95	681,454.17	(20,775.78)	681,454.17	624,250.70
23245QAA7	1,628,273.50	-	1,628,273.50	1,589,532.01	(38,741.49)	1,589,532.01	1,566,167.19
23332UAC8	3,276,133.69	-	3,276,133.69	3,178,167.62	(97,966.07)	3,178,167.62	3,766,901.31
23332UAR5	6,741,362.58	-	6,741,362.58	6,559,992.29	(181,370.29)	6,559,992.29	7,018,715.96

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
23332UBV5	\$ 4,029,640.03	\$ -	\$ 4,029,640.03	\$ 3,876,007.69	\$ (153,632.34)	\$ 3,876,007.69	\$ 3,886,993.68
23332UCM4	403,592.75	-	403,592.75	396,879.36	(6,713.39)	396,879.36	368,092.05
23332UDU5	14,338,921.99	-	14,338,921.99	13,722,207.61	(616,714.38)	13,722,207.61	11,911,773.68
23332UFV1	1,077,072.50	-	1,077,072.50	997,406.70	(79,665.80)	997,406.70	933,919.73
251510NC3	11,830,571.08	-	11,830,571.08	10,964,975.47	(865,595.61)	10,964,975.47	6,836,695.19
28140XAE9	44,000.00	-	44,000.00	-	(44,000.00)	-	180,432.00
32051DV33	411,468.64	-	411,468.64	359,110.52	(52,358.12)	359,110.52	415,924.50
32113JAA3	524,407.05	-	524,407.05	489,022.15	(35,384.90)	489,022.15	437,139.43
362341L49	4,425,602.42	-	4,425,602.42	4,162,981.73	(262,620.69)	4,162,981.73	3,133,037.82
36242DBJ1	373,091.99	-	373,091.99	363,392.73	(9,699.26)	363,392.73	365,798.61
362480AD7	818,813.53	-	818,813.53	800,798.68	(18,014.85)	800,798.68	708,772.26
39538RBB4	8,837,531.53	-	8,837,531.53	8,671,538.79	(165,992.74)	8,671,538.79	7,719,420.61
39538WBH0	2,674.31	-	2,674.31	2,500.33	(173.98)	2,500.33	1,348.48
39538WFH6	7,107,201.63	-	7,107,201.63	6,829,766.21	(277,435.42)	6,829,766.21	6,207,709.49
39538WHF8	20,436,910.95	-	20,436,910.95	19,982,637.72	(454,273.23)	19,982,637.72	17,530,138.30
39539GAA0	3,131,528.68	-	3,131,528.68	3,040,304.05	(91,224.63)	3,040,304.05	2,779,958.90
40430HBH0	3,807.98	-	3,807.98	2,365.06	(1,442.92)	2,365.06	4,835.72
41161PFR9	874,319.04	-	874,319.04	870,422.32	(3,896.72)	870,422.32	836,750.57
41161PHU0	5,378,599.79	-	5,378,599.79	5,312,154.11	(66,445.68)	5,312,154.11	5,714,722.05
41161PKH5	333,249.83	-	333,249.83	317,782.31	(15,467.52)	317,782.31	328,714.19
41161PLR2	8,371,145.78	-	8,371,145.78	8,227,592.91	(143,552.87)	8,227,592.91	7,610,370.30
41161PMG5	10,265,049.13	-	10,265,049.13	10,057,344.02	(207,705.11)	10,057,344.02	8,933,425.54
41161PQU0	9,172,389.34	-	9,172,389.34	9,136,472.74	(35,916.60)	9,136,472.74	8,380,147.54
41161PSK0	3,478,271.55	-	3,478,271.55	3,454,855.94	(23,415.61)	3,454,855.94	3,116,817.04
41161PTN3	1,485,257.91	-	1,485,257.91	1,444,623.62	(40,634.29)	1,444,623.62	1,367,281.30
41161PWB5	4,646,026.49	-	4,646,026.49	4,602,682.04	(43,344.45)	4,602,682.04	4,113,910.79
41161PXH1	548,433.09	-	548,433.09	537,045.78	(11,387.31)	537,045.78	499,452.81
41164LAB5	8,448,415.82	-	8,448,415.82	8,180,637.98	(267,777.84)	8,180,637.98	6,432,440.57
41164YAB7	8,482,076.57	-	8,482,076.57	8,333,726.65	(148,349.92)	8,333,726.65	7,246,002.39
43739EBJ5	7,058,150.46	-	7,058,150.46	7,007,297.76	(50,852.70)	7,007,297.76	5,939,909.98
45071KDD3	839,825.09	-	839,825.09	749,122.18	(90,702.91)	749,122.18	759,242.51
45254NJG3	895,740.78	-	895,740.78	878,506.92	(17,233.86)	878,506.92	880,139.68
45254NJV0	766,580.95	-	766,580.95	755,961.94	(10,619.01)	755,961.94	720,069.78
45254NML8	1,125,979.69	-	1,125,979.69	1,068,860.98	(57,118.71)	1,068,860.98	971,152.92
45254NNP8	9,403,371.46	-	9,403,371.46	9,242,236.34	(161,135.12)	9,242,236.34	8,852,219.04
45254NPA9	3,389,379.80	-	3,389,379.80	3,190,682.08	(198,697.72)	3,190,682.08	3,089,441.21
45254NPU5	3,497,954.43	-	3,497,954.43	3,226,170.03	(271,784.40)	3,226,170.03	3,586,159.25
45254TSM7	2,704,824.59	-	2,704,824.59	2,648,494.36	(56,330.23)	2,648,494.36	2,249,586.79
452570AA2	38,044.53	-	38,044.53	36,590.40	(1,454.13)	36,590.40	36,303.60
45257EAA2	2,672,524.41	-	2,672,524.41	2,598,631.98	(73,892.43)	2,598,631.98	2,219,789.35
45660LKW8	19,422,015.89	-	19,422,015.89	18,851,953.78	(570,062.11)	18,851,953.78	14,706,208.59
45660LW96	1,890,980.36	-	1,890,980.36	1,882,259.02	(8,721.34)	1,882,259.02	1,776,779.42
45660LYW3	2,651,096.95	-	2,651,096.95	2,621,771.19	(29,325.76)	2,621,771.19	2,114,696.81
45660N2J3	3,200,163.07	-	3,200,163.07	3,186,018.57	(14,144.50)	3,186,018.57	3,533,256.10
45660NS30	1,704,040.33	-	1,704,040.33	1,697,430.89	(6,609.44)	1,697,430.89	1,511,345.12
45660NT96	1,772,999.59	-	1,772,999.59	1,739,284.08	(33,715.51)	1,739,284.08	2,163,248.96
456612AC4	11,961,695.73	-	11,961,695.73	11,531,113.16	(430,582.57)	11,531,113.16	9,704,906.36
46412AAD4	4,450,689.02	-	4,450,689.02	2,777,199.64	(1,673,489.38)	2,777,199.64	4,146,653.29
466247UG6	1,765,463.00	-	1,765,463.00	1,745,471.77	(19,991.23)	1,745,471.77	1,671,013.64
466247XE8	4,528,510.15	-	4,528,510.15	4,344,059.17	(184,450.98)	4,344,059.17	3,759,851.11
46627MBQ9	9,095,045.46	-	9,095,045.46	8,754,441.61	(340,603.85)	8,754,441.61	7,789,362.95
46629BAR0	3,063,023.79	-	3,063,023.79	3,046,423.87	(16,599.92)	3,046,423.87	2,525,241.11
525221AJ6	1,920,906.01	-	1,920,906.01	1,828,241.78	(92,664.23)	1,828,241.78	1,633,344.92
525221CD7	99,549.31	-	99,549.31	85,811.54	(13,737.77)	85,811.54	67,177.70
525221HA8	16,974,165.86	-	16,974,165.86	16,922,984.16	(51,181.70)	16,922,984.16	12,633,102.93
525226AL0	1,047,118.57	-	1,047,118.57	975,947.93	(71,170.64)	975,947.93	352,987.74
525229AG5	386,538.40	-	386,538.40	364,494.80	(22,043.60)	364,494.80	216,089.08
52524VAG4	8,880,642.30	-	8,880,642.30	8,448,297.51	(432,344.79)	8,448,297.51	7,860,943.53
52524YAF0	7,938,173.02	-	7,938,173.02	7,633,009.65	(305,163.37)	7,633,009.65	6,686,867.82
550279AA1	3,558,070.71	-	3,558,070.71	3,455,606.28	(102,464.43)	3,455,606.28	3,262,598.43
55027AAR1	7,952,505.19	-	7,952,505.19	7,813,568.33	(138,936.86)	7,813,568.33	6,320,491.78
55027BAA6	10,884,773.60	-	10,884,773.60	10,566,744.11	(318,029.49)	10,566,744.11	9,346,869.47
576433H33	283,667.90	-	283,667.90	272,217.42	(11,450.48)	272,217.42	261,734.57
576433RU2	1,353,577.12	-	1,353,577.12	1,272,352.70	(81,224.42)	1,272,352.70	1,124,196.89
576433SE7	1,367,493.57	-	1,367,493.57	1,291,443.14	(76,050.43)	1,291,443.14	881,619.00
57643LMP8	1,521,589.02	-	1,521,589.02	1,467,456.62	(54,132.40)	1,467,456.62	1,080,718.39
589929N38	1,128,343.17	-	1,128,343.17	1,124,608.38	(3,734.79)	1,124,608.38	1,121,005.99
589929X29	3,219,135.72	-	3,219,135.72	3,162,749.88	(56,385.84)	3,162,749.88	3,083,514.94
59020UQ57	3,216,569.32	-	3,216,569.32	3,134,642.91	(81,926.41)	3,134,642.91	2,056,200.40
617463AA2	15,957.84	-	15,957.84	15,572.05	(385.79)	15,572.05	12,714.50
61748HAA9	10,679.44	-	10,679.44	10,549.38	(130.06)	10,549.38	11,455.55
61750FAE0	700,285.02	-	700,285.02	688,486.26	(11,798.76)	688,486.26	607,105.55

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
61753KAB2	\$ 121,326.36	\$ -	\$ 121,326.36	\$ 64,367.48	\$ (56,958.88)	\$ 64,367.48	\$ 61,996.57
61757MAB4	2,139,886.61	-	2,139,886.61	1,570,104.92	(569,781.69)	1,570,104.92	2,041,732.19
61915RBB1	5,370,697.25	-	5,370,697.25	5,254,499.28	(116,197.97)	5,254,499.28	4,941,918.72
638728AC9	1,805,925.45	-	1,805,925.45	1,647,260.90	(158,664.55)	1,647,260.90	1,656,632.29
64352VNY3	2,771,152.24	-	2,771,152.24	2,267,069.86	(504,082.38)	2,267,069.86	1,837,659.00
64352VPC9	8,338.54	-	8,338.54	4,623.94	(3,714.60)	4,623.94	6,138.11
65106FAB8	7,183,924.50	-	7,183,924.50	7,147,231.17	(36,693.33)	7,147,231.17	6,400,260.04
65535VUS5	1,434,863.05	-	1,434,863.05	1,302,986.92	(131,876.13)	1,302,986.92	1,251,562.72
68383NBZ5	4,000,850.81	-	4,000,850.81	3,745,222.49	(255,628.32)	3,745,222.49	3,941,383.87
68383NCA9	16,533,784.14	-	16,533,784.14	16,234,620.96	(299,163.18)	16,234,620.96	16,981,217.67
68383NCD3	2,675,434.84	-	2,675,434.84	2,604,043.22	(71,391.62)	2,604,043.22	2,572,371.00
68383NDT7	6,481,943.18	-	6,481,943.18	6,369,680.71	(112,262.47)	6,369,680.71	5,205,734.12
68383NDW0	5,825,533.09	-	5,825,533.09	5,649,906.06	(175,627.03)	5,649,906.06	4,145,042.55
74922AAA5	10,526,116.43	-	10,526,116.43	9,677,646.46	(848,469.97)	9,677,646.46	7,633,577.61
74922MAB7	7,248,372.12	-	7,248,372.12	6,714,771.76	(533,600.36)	6,714,771.76	6,715,310.51
74922MAC5	707,323.17	-	707,323.17	660,547.34	(46,775.83)	660,547.34	699,536.00
75114GAC3	14,411,026.37	-	14,411,026.37	13,941,542.93	(469,483.44)	13,941,542.93	11,356,754.41
75114HAD9	13,608,091.32	-	13,608,091.32	13,060,457.61	(547,633.71)	13,060,457.61	11,126,549.82
75114HAK3	4,204,427.10	-	4,204,427.10	3,727,063.95	(477,363.15)	3,727,063.95	2,461,201.96
75405KAG3	11,830.73	-	11,830.73	7,862.00	(3,968.73)	7,862.00	7,577.91
76110GE23	4,391,658.82	-	4,391,658.82	4,387,721.30	(3,937.52)	4,387,721.30	4,357,038.85
76110GUG4	1,147,028.99	-	1,147,028.99	1,119,058.74	(27,970.25)	1,119,058.74	1,098,963.42
761118NN4	7,313,920.69	-	7,313,920.69	6,861,943.31	(451,977.38)	6,861,943.31	6,785,487.46
761118RJ9	276,531.77	-	276,531.77	266,120.78	(10,410.99)	266,120.78	252,111.95
77277LAF4	39,517,587.09	-	39,517,587.09	38,874,645.93	(642,941.16)	38,874,645.93	26,606,966.38
77277LAH0	1,964,959.14	-	1,964,959.14	1,933,141.62	(31,817.52)	1,933,141.62	2,572,624.78
77277LAJ6	27,814,860.59	-	27,814,860.59	27,368,866.47	(445,994.12)	27,368,866.47	16,742,920.30
81378EAA1	1,925,635.35	-	1,925,635.35	1,829,366.14	(96,269.21)	1,829,366.14	1,842,362.88
81379EAA0	246,817.09	-	246,817.09	236,120.61	(10,696.48)	236,120.61	207,882.97
83613GAA7	2,012,128.31	-	2,012,128.31	1,894,346.96	(117,781.35)	1,894,346.96	1,930,801.74
863579HM3	2,958.38	-	2,958.38	1,663.65	(1,294.73)	1,663.65	2,719.25
86359BU82	48,193.66	-	48,193.66	26,315.63	(21,878.03)	26,315.63	24,054.29
86360JAA9	9,190,506.61	-	9,190,506.61	8,389,847.79	(800,658.82)	8,389,847.79	6,481,882.57
86360JAE1	6,854,732.97	-	6,854,732.97	6,511,222.23	(343,510.74)	6,511,222.23	5,317,343.11
86360KAF5	26,074,176.98	-	26,074,176.98	25,895,531.95	(178,645.03)	25,895,531.95	23,412,386.09
86360UAF3	3,138,149.64	-	3,138,149.64	3,009,035.04	(129,114.60)	3,009,035.04	2,753,523.93
86362HAA1	7,317,300.14	-	7,317,300.14	7,305,095.32	(12,204.82)	7,305,095.32	6,677,392.01
88157QAL2	648,398.13	-	648,398.13	567,274.44	(81,123.69)	567,274.44	1,394,925.58
89789KAC9	20,085.78	-	20,085.78	15,044.02	(5,041.76)	15,044.02	16,248.72
92922F4M7	3,796,821.22	-	3,796,821.22	3,662,184.15	(134,637.07)	3,662,184.15	3,359,468.93
92922F5T1	6,349,746.87	-	6,349,746.87	6,082,648.99	(267,097.88)	6,082,648.99	5,770,123.31
92922FB72	1,044,633.17	-	1,044,633.17	1,024,610.17	(20,023.00)	1,024,610.17	1,021,754.74
92922FJ25	5,517,864.48	-	5,517,864.48	5,358,099.61	(159,764.87)	5,358,099.61	4,984,701.82
92922FZF8	7,110,463.72	-	7,110,463.72	7,056,485.15	(53,978.57)	7,056,485.15	7,480,813.93
92925CBB7	3,657,148.66	-	3,657,148.66	3,509,428.92	(147,719.74)	3,509,428.92	3,067,040.60
92977YAY7	1,710,312.44	-	1,710,312.44	1,674,947.94	(35,364.50)	1,674,947.94	257,348.00
939336X65	9,716,858.34	-	9,716,858.34	9,515,392.27	(201,466.07)	9,515,392.27	10,498,736.16
93934FHC9	6,877,031.30	-	6,877,031.30	6,575,156.56	(301,874.74)	6,575,156.56	5,456,555.03
93934FJQ6	12,186,984.18	-	12,186,984.18	12,035,963.57	(151,020.61)	12,035,963.57	10,519,269.00
Totals	\$ 816,573,456.06	\$ -	\$ 816,573,456.06	\$ 788,350,822.82	\$ (28,222,633.24)	\$ 788,350,822.82	\$ 697,683,288.85

The following is the impairment listing for loan-backed and structured securities for the three months ended June 30, 2012:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 200,000.00	\$ -	\$ 200,000.00	\$ 85,000.00	\$ (115,000.00)	\$ 85,000.00	\$ 85,000.00
004421TD5	1,431,855.30	-	1,431,855.30	1,363,868.44	(67,986.86)	1,363,868.44	1,153,173.00
00442JAE4	3,862,291.68	-	3,862,291.68	3,851,473.26	(10,818.42)	3,851,473.26	3,572,149.48
00442KAD3	3,369,186.36	-	3,369,186.36	3,302,832.79	(66,353.57)	3,302,832.79	2,132,351.50
02146QAB9	10,287,869.59	-	10,287,869.59	10,218,956.32	(68,913.27)	10,218,956.32	7,537,246.63
02147CAA1	7,107,918.64	-	7,107,918.64	6,969,965.32	(137,953.32)	6,969,965.32	6,342,616.04
02147DAB7	8,606,269.92	-	8,606,269.92	8,562,519.86	(43,750.06)	8,562,519.86	6,556,038.08
02150MAB1	13,771,067.83	-	13,771,067.83	13,669,332.80	(101,735.03)	13,669,332.80	13,557,560.71
02660TBF9	282,099.51	-	282,099.51	253,604.97	(28,494.54)	253,604.97	1,028,856.60
02660TGN7	6,692,845.69	-	6,692,845.69	6,584,228.33	(108,617.36)	6,584,228.33	4,775,635.84
02660TGS6	5,649,878.60	-	5,649,878.60	5,532,070.58	(117,808.02)	5,532,070.58	3,903,949.03
02660THL0	1,238,687.87	-	1,238,687.87	1,197,189.92	(41,497.95)	1,197,189.92	1,030,696.83
02660TJB0	17,108,199.57	-	17,108,199.57	16,917,717.88	(190,481.69)	16,917,717.88	12,785,540.98
02660WAC0	13,255,792.13	-	13,255,792.13	12,728,320.95	(527,471.18)	12,728,320.95	9,450,333.83

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
02660XAD6	\$ 9,023,202.20	\$ -	\$ 9,023,202.20	\$ 8,882,491.32	\$ (140,710.88)	\$ 8,882,491.32	\$ 7,904,039.85
026929AA7	7,231,924.69	-	7,231,924.69	7,195,941.59	(35,983.10)	7,195,941.59	6,895,829.36
026929AD1	6,311,562.31	-	6,311,562.31	6,160,569.79	(150,992.52)	6,160,569.79	4,307,184.73
040104QN4	2,176,680.39	-	2,176,680.39	2,141,977.65	(34,702.74)	2,141,977.65	1,663,011.91
040104RV5	1,649,861.14	-	1,649,861.14	1,615,029.38	(34,831.76)	1,615,029.38	1,406,395.36
055294AA0	2,225,393.89	-	2,225,393.89	2,183,996.71	(41,397.18)	2,183,996.71	2,038,217.83
05949ALH1	1,621,893.67	-	1,621,893.67	1,620,419.54	(1,474.13)	1,620,419.54	1,596,127.11
05949CCB0	656,838.44	-	656,838.44	626,385.03	(30,453.41)	626,385.03	649,367.68
07325VAG9	1,735,629.35	-	1,735,629.35	1,723,028.99	(12,600.36)	1,723,028.99	1,273,366.93
07384MW40	88,210.20	-	88,210.20	87,977.52	(232.68)	87,977.52	84,711.88
07384YCD6	4,537,996.34	-	4,537,996.34	4,513,940.23	(24,056.11)	4,513,940.23	3,866,023.93
073854AB7	10,873,710.45	-	10,873,710.45	10,623,347.48	(250,362.97)	10,623,347.48	10,432,056.29
07386HSP7	4,689,009.73	-	4,689,009.73	4,642,803.64	(46,206.09)	4,642,803.64	3,471,488.87
073879Z92	7,378,319.99	-	7,378,319.99	7,185,484.66	(192,835.33)	7,185,484.66	4,726,061.37
07389VAA5	1,318,932.07	-	1,318,932.07	1,280,083.52	(38,848.55)	1,280,083.52	1,097,200.81
07401LAA1	10,399,215.66	-	10,399,215.66	10,211,138.77	(188,076.89)	10,211,138.77	7,737,082.30
07820QAY1	10,244,033.14	-	10,244,033.14	10,084,183.24	(159,849.90)	10,084,183.24	7,631,582.53
12667GCB7	143,614.09	-	143,614.09	141,535.45	(2,078.64)	141,535.45	113,681.08
12667GME0	13,002,918.82	-	13,002,918.82	12,904,511.72	(98,407.10)	12,904,511.72	9,057,198.55
12667GS20	9,653,506.47	-	9,653,506.47	9,511,658.52	(141,847.95)	9,511,658.52	7,409,946.62
12668AEV3	8,700,864.26	-	8,700,864.26	8,657,056.30	(43,807.96)	8,657,056.30	7,004,721.42
12668BB77	17,547,512.32	-	17,547,512.32	17,438,286.35	(109,225.97)	17,438,286.35	13,341,926.58
126694N46	238,636.82	-	238,636.82	231,415.75	(7,221.07)	231,415.75	171,330.74
12669FW82	851,239.78	-	851,239.78	847,589.63	(3,650.15)	847,589.63	647,311.89
12669FXR9	370,494.06	-	370,494.06	366,193.11	(4,300.95)	366,193.11	307,570.41
12669GKH3	9,657,789.05	-	9,657,789.05	9,626,283.07	(31,505.98)	9,626,283.07	8,224,615.71
12669GRQ6	4,726,256.52	-	4,726,256.52	4,661,996.18	(64,260.34)	4,661,996.18	4,014,966.39
12669GTV3	259,652.30	-	259,652.30	249,772.89	(9,879.41)	249,772.89	211,949.32
12669GUR0	2,597,195.38	-	2,597,195.38	2,570,000.85	(27,194.53)	2,570,000.85	2,005,653.32
14453MAB0	6,510,444.56	-	6,510,444.56	6,287,272.76	(223,171.80)	6,287,272.76	4,814,360.57
14454AAB5	2,010,836.64	-	2,010,836.64	1,921,516.72	(89,319.92)	1,921,516.72	1,169,687.55
14983CAA3	1,062,031.79	-	1,062,031.79	999,049.90	(62,981.89)	999,049.90	805,764.20
22943HAD8	6,668,798.61	-	6,668,798.61	6,106,933.18	(561,865.43)	6,106,933.18	2,462,010.00
23243AAD8	756,348.29	-	756,348.29	752,029.25	(4,319.04)	752,029.25	627,320.41
23321P6A1	6,365,678.30	-	6,365,678.30	6,352,809.55	(12,868.75)	6,352,809.55	6,304,418.22
23332UAR5	7,184,122.90	-	7,184,122.90	6,977,311.03	(206,811.87)	6,977,311.03	6,088,532.73
23332UBG8	4,829,464.62	-	4,829,464.62	4,803,542.84	(25,921.78)	4,803,542.84	4,236,755.99
23332UBV5	4,226,881.85	-	4,226,881.85	4,136,244.85	(90,637.00)	4,136,244.85	3,452,468.99
23332UCM4	425,661.23	-	425,661.23	419,406.25	(6,254.98)	419,406.25	316,927.03
23332UDU5	15,161,149.93	-	15,161,149.93	14,909,013.37	(252,136.56)	14,909,013.37	11,082,888.05
23332UFV1	1,124,568.71	-	1,124,568.71	1,099,842.01	(24,726.70)	1,099,842.01	781,834.55
251510EH2	26,882,770.36	-	26,882,770.36	26,866,304.62	(16,465.74)	26,866,304.62	26,880,066.39
251510FB4	4,270,275.32	-	4,270,275.32	4,196,350.93	(73,924.39)	4,196,350.93	3,631,606.94
30251YAB4	6,357,372.84	-	6,357,372.84	6,245,225.03	(112,147.81)	6,245,225.03	5,452,636.22
32051DV33	137,807.13	-	137,807.13	137,159.30	(647.83)	137,159.30	133,197.33
32053LAA0	154,571.30	-	154,571.30	145,156.35	(9,414.95)	145,156.35	140,283.47
32113JAA3	535,759.12	-	535,759.12	531,717.71	(4,041.41)	531,717.71	372,539.44
36185NXT2	156,720.67	-	156,720.67	66,042.17	(90,678.50)	66,042.17	286,175.91
36242DBJ1	827,700.02	-	827,700.02	826,427.41	(1,272.61)	826,427.41	791,983.59
39538RBB4	9,235,052.70	-	9,235,052.70	9,161,868.90	(73,183.80)	9,161,868.90	6,512,187.42
39538WFF6	7,446,871.83	-	7,446,871.83	7,388,250.67	(58,621.16)	7,388,250.67	5,212,964.28
39538WHF8	21,165,329.45	-	21,165,329.45	20,819,111.57	(346,217.88)	20,819,111.57	14,494,086.18
41161PHC0	5,663,138.76	-	5,663,138.76	5,571,887.86	(91,250.90)	5,571,887.86	4,657,833.18
41161PHU0	5,574,767.28	-	5,574,767.28	5,545,485.20	(29,282.08)	5,545,485.20	4,933,438.31
41161PKH5	358,341.70	-	358,341.70	350,459.48	(7,882.22)	350,459.48	279,909.18
41161PLR2	8,744,109.73	-	8,744,109.73	8,623,527.46	(120,582.27)	8,623,527.46	7,001,090.12
41161PMG5	10,907,650.36	-	10,907,650.36	10,675,036.33	(232,614.03)	10,675,036.33	8,384,590.26
41161PQU0	9,626,881.95	-	9,626,881.95	9,511,928.93	(114,953.02)	9,511,928.93	7,153,603.90
41161PTN3	1,567,226.31	-	1,567,226.31	1,530,481.28	(36,745.03)	1,530,481.28	1,227,098.07
41161PWB5	4,792,597.54	-	4,792,597.54	4,742,660.23	(49,937.31)	4,742,660.23	3,425,757.56
41164LAB5	9,025,230.86	-	9,025,230.86	8,802,389.69	(222,841.17)	8,802,389.69	6,136,334.93
41164YAB7	8,783,262.95	-	8,783,262.95	8,626,488.00	(156,774.95)	8,626,488.00	6,415,095.86
43739EAP2	14,784,174.76	-	14,784,174.76	14,453,507.95	(330,666.81)	14,453,507.95	12,736,364.43
43739EBS5	6,644,926.54	-	6,644,926.54	6,613,195.04	(31,731.50)	6,613,195.04	5,994,185.62
45071KDD3	874,479.83	-	874,479.83	843,040.88	(31,438.95)	843,040.88	591,187.65
45254NFY8	1,038,063.72	-	1,038,063.72	963,823.44	(74,240.28)	963,823.44	905,686.67
45254NJG3	983,177.00	-	983,177.00	929,554.25	(53,622.75)	929,554.25	859,472.92
45254NJV0	792,655.77	-	792,655.77	780,003.42	(12,652.35)	780,003.42	687,882.12
45254NKF3	3,837,676.15	-	3,837,676.15	3,683,101.32	(154,574.83)	3,683,101.32	3,959,710.64
45254NKX4	4,478,860.96	-	4,478,860.96	4,422,738.27	(56,122.69)	4,422,738.27	4,098,551.43
45254NMB0	835,811.04	-	835,811.04	829,894.54	(5,916.50)	829,894.54	827,244.85
45254NML8	1,226,716.58	-	1,226,716.58	1,135,591.92	(91,124.66)	1,135,591.92	916,733.12

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45254NNP8	\$ 9,764,362.25	\$ -	\$ 9,764,362.25	\$ 9,679,352.19	\$ (85,010.06)	\$ 9,679,352.19	\$ 8,050,803.25
45254NPA9	11,273,438.09	-	11,273,438.09	10,257,202.67	(1,016,235.42)	10,257,202.67	9,774,878.07
45254NPU5	3,954,742.03	-	3,954,742.03	3,563,809.02	(390,933.01)	3,563,809.02	3,138,432.38
45254TRX4	225,155.56	-	225,155.56	220,114.37	(5,041.19)	220,114.37	196,421.77
45254TSM7	2,772,862.81	-	2,772,862.81	2,753,083.50	(19,779.31)	2,753,083.50	1,949,032.94
45254TTM6	9,152,610.15	-	9,152,610.15	8,265,168.78	(887,441.37)	8,265,168.78	7,210,716.01
452570AA2	39,357.38	-	39,357.38	38,813.03	(544.35)	38,813.03	35,080.60
45257EAA2	3,341,322.24	-	3,341,322.24	2,836,462.90	(504,859.34)	2,836,462.90	2,332,857.39
45660LW96	1,942,016.41	-	1,942,016.41	1,904,763.48	(37,252.93)	1,904,763.48	1,435,169.74
45660N5H4	4,351,507.28	-	4,351,507.28	4,338,621.20	(12,886.08)	4,338,621.20	3,923,989.16
45660NQ24	1,233,486.45	-	1,233,486.45	1,230,642.09	(2,844.36)	1,230,642.09	1,232,617.90
45660NRB3	487,414.55	-	487,414.55	399,280.68	(88,133.87)	399,280.68	490,283.19
45660NT96	1,816,063.88	-	1,816,063.88	1,806,256.24	(9,807.64)	1,806,256.24	1,859,981.54
466247XE8	4,650,188.72	-	4,650,188.72	4,635,482.74	(14,705.98)	4,635,482.74	3,697,655.40
525221CD7	112,779.85	-	112,779.85	98,101.84	(14,678.01)	98,101.84	61,836.12
525221GM3	2,458,888.85	-	2,458,888.85	2,445,388.33	(13,500.52)	2,445,388.33	1,644,620.54
525221HA8	17,763,846.44	-	17,763,846.44	17,620,557.18	(143,289.26)	17,620,557.18	11,871,568.03
525226AL0	1,099,219.42	-	1,099,219.42	1,039,327.33	(59,892.09)	1,039,327.33	339,620.60
52524VAG4	9,458,735.80	-	9,458,735.80	9,212,714.22	(246,021.58)	9,212,714.22	7,479,285.60
52524YAF0	8,272,104.47	-	8,272,104.47	8,222,548.65	(49,555.82)	8,222,548.65	6,109,440.99
550279AA1	3,665,435.80	-	3,665,435.80	3,655,115.00	(10,320.80)	3,655,115.00	2,954,176.05
55027AAR1	8,352,542.50	-	8,352,542.50	8,109,980.95	(242,561.55)	8,109,980.95	5,760,436.41
55027AAU4	4,369,031.87	-	4,369,031.87	3,986,137.45	(382,894.42)	3,986,137.45	3,030,630.32
55027BAA6	11,515,914.05	-	11,515,914.05	11,172,053.06	(343,860.99)	11,172,053.06	8,356,553.71
55274SAM3	790,404.35	-	790,404.35	778,317.32	(12,087.03)	778,317.32	723,886.32
576433H33	290,906.36	-	290,906.36	290,091.39	(814.97)	290,091.39	216,527.20
576433RU2	1,412,948.79	-	1,412,948.79	1,351,921.38	(61,027.41)	1,351,921.38	871,870.50
576433SE7	1,387,862.96	-	1,387,862.96	1,362,484.32	(25,378.64)	1,362,484.32	841,751.20
576433YN0	1,020,587.11	-	1,020,587.11	995,392.32	(25,194.79)	995,392.32	869,933.44
589929X29	3,745,698.79	-	3,745,698.79	3,656,057.80	(89,640.99)	3,656,057.80	3,200,240.15
59020UAA3	107,389.64	-	107,389.64	106,562.02	(827.62)	106,562.02	116,170.81
59020UAC9	772,552.78	-	772,552.78	761,004.07	(11,548.71)	761,004.07	767,074.36
61748HAA9	5,844.66	-	5,844.66	5,039.15	(805.51)	5,039.15	5,599.85
61753KAB2	152,329.44	-	152,329.44	124,750.96	(27,578.48)	124,750.96	104,558.71
61757MAB4	2,336,961.40	-	2,336,961.40	2,140,988.87	(195,972.53)	2,140,988.87	1,851,385.13
61913PAA0	10,298,141.38	-	10,298,141.38	10,255,708.63	(42,432.75)	10,255,708.63	9,957,202.81
61915RBB1	5,610,065.10	-	5,610,065.10	5,511,448.64	(98,616.46)	5,511,448.64	4,215,508.59
61915RBZ8	590,852.12	-	590,852.12	573,216.15	(17,635.97)	573,216.15	470,172.19
638728AC9	1,873,987.12	-	1,873,987.12	1,834,131.37	(39,855.75)	1,834,131.37	1,285,552.89
65535VRK6	431,601.40	-	431,601.40	426,845.72	(4,755.68)	426,845.72	394,222.23
65535VUS5	1,552,289.89	-	1,552,289.89	1,507,833.50	(44,456.39)	1,507,833.50	875,125.42
65538DAA3	1,895,934.08	-	1,895,934.08	1,864,821.48	(31,112.60)	1,864,821.48	1,394,262.04
68383NCA9	17,471,873.47	-	17,471,873.47	17,083,180.00	(388,693.47)	17,083,180.00	15,924,424.42
68383NCD3	2,742,202.29	-	2,742,202.29	2,666,657.17	(75,545.12)	2,666,657.17	2,107,503.00
68383NCU5	6,535,346.78	-	6,535,346.78	6,366,445.92	(168,900.86)	6,366,445.92	5,584,860.65
68383NDT7	6,770,195.33	-	6,770,195.33	6,684,267.20	(85,928.13)	6,684,267.20	4,864,335.27
73316PJD3	17,233.44	-	17,233.44	15,938.56	(1,294.88)	15,938.56	15,075.41
74922AAA5	11,432,085.57	-	11,432,085.57	10,848,563.47	(583,522.10)	10,848,563.47	7,368,263.94
74922MAB7	8,041,255.68	-	8,041,255.68	7,503,169.16	(538,086.52)	7,503,169.16	5,646,779.29
74922MAC5	1,058,860.00	-	1,058,860.00	963,194.41	(95,665.59)	963,194.41	779,705.04
75114GAC3	15,472,732.82	-	15,472,732.82	14,796,192.74	(676,540.08)	14,796,192.74	10,310,046.31
75114HAD9	14,374,500.19	-	14,374,500.19	14,088,504.92	(285,995.27)	14,088,504.92	10,413,693.52
75114HAK3	4,575,978.98	-	4,575,978.98	4,163,435.41	(412,543.57)	4,163,435.41	1,968,950.36
760985U33	476,529.29	-	476,529.29	459,999.24	(16,530.05)	459,999.24	470,925.07
76110GE23	4,486,264.08	-	4,486,264.08	4,479,609.63	(6,654.45)	4,479,609.63	3,740,468.32
76110UG4	1,202,269.60	-	1,202,269.60	1,199,172.45	(3,097.15)	1,199,172.45	1,144,874.11
761118FM5	8,570,697.93	-	8,570,697.93	8,493,487.10	(77,210.83)	8,493,487.10	8,323,336.48
761118KU1	5,554,419.45	-	5,554,419.45	5,142,391.57	(412,027.88)	5,142,391.57	3,979,797.32
761118NN4	7,620,104.69	-	7,620,104.69	7,481,830.28	(138,274.41)	7,481,830.28	5,699,451.77
761118RJ9	300,705.39	-	300,705.39	284,520.47	(16,184.92)	284,520.47	192,710.00
761118RM2	15,196,836.86	-	15,196,836.86	13,522,622.17	(1,674,214.69)	13,522,622.17	9,724,611.07
76112HAE7	32,009.23	-	32,009.23	30,576.03	(1,433.20)	30,576.03	31,895.47
805564RM5	2,970,387.09	-	2,970,387.09	2,854,917.47	(115,469.62)	2,854,917.47	2,725,749.61
81744FDK0	2,004,694.46	-	2,004,694.46	2,003,446.91	(1,247.55)	2,003,446.91	1,860,889.88
83613GAA7	2,088,852.82	-	2,088,852.82	2,038,594.80	(50,258.02)	2,038,594.80	1,826,699.24
86358RQ83	132,075.82	-	132,075.82	129,709.23	(2,366.59)	129,709.23	111,037.92
86359ADN0	300,845.68	-	300,845.68	232,528.71	(68,316.97)	232,528.71	173,751.34
86359BLB5	1,121,595.85	-	1,121,595.85	1,117,683.98	(3,911.87)	1,117,683.98	1,107,138.61
86359DDB0	1,502,493.10	-	1,502,493.10	1,465,861.87	(36,631.23)	1,465,861.87	1,218,072.63
86359DUL9	145,728.32	-	145,728.32	144,723.46	(1,004.86)	144,723.46	117,995.06
86359DUR6	13,912,545.28	-	13,912,545.28	13,743,927.98	(168,617.30)	13,743,927.98	11,206,756.34
86359LRW1	16,864,738.99	-	16,864,738.99	16,620,981.75	(243,757.24)	16,620,981.75	11,969,985.87

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
86359LSM2	\$ 1,125,578.49	\$ -	\$ 1,125,578.49	\$ 1,099,624.38	\$ (25,954.11)	\$ 1,099,624.38	\$ 826,429.54
86360JAA9	9,723,060.72	-	9,723,060.72	9,633,736.86	(89,323.86)	9,633,736.86	5,413,180.90
86360JAE1	7,325,252.91	-	7,325,252.91	7,105,955.59	(219,297.32)	7,105,955.59	4,510,390.49
86360KAF5	27,686,477.95	-	27,686,477.95	27,172,487.39	(513,990.56)	27,172,487.39	17,521,325.65
86360UAF3	3,300,100.97	-	3,300,100.97	3,246,625.82	(53,475.15)	3,246,625.82	2,378,138.65
86361HAA2	10,247,229.88	-	10,247,229.88	10,059,760.37	(187,469.51)	10,059,760.37	6,991,868.52
88157QAL2	687,666.55	-	687,666.55	641,362.90	(46,303.65)	641,362.90	1,251,357.07
885220FS7	5,964,125.86	-	5,964,125.86	5,887,292.28	(76,833.58)	5,887,292.28	5,696,732.83
92922F4M7	3,928,525.13	-	3,928,525.13	3,902,560.52	(25,964.61)	3,902,560.52	3,207,898.95
92922F5T1	6,601,125.32	-	6,601,125.32	6,532,188.39	(68,936.93)	6,532,188.39	5,368,328.70
92922F7Q5	7,833,706.21	-	7,833,706.21	7,796,889.46	(36,816.75)	7,796,889.46	6,591,798.09
92922FB72	1,086,772.77	-	1,086,772.77	1,075,566.77	(11,206.00)	1,075,566.77	920,347.74
92922FJ25	5,684,105.78	-	5,684,105.78	5,663,043.97	(21,061.81)	5,663,043.97	4,491,666.49
92922FWU8	3,212,069.20	-	3,212,069.20	3,192,161.08	(19,908.12)	3,192,161.08	3,079,304.16
92925CBB7	3,785,595.84	-	3,785,595.84	3,756,988.02	(28,607.82)	3,756,988.02	3,090,173.97
92977YAY7	2,076,178.98	-	2,076,178.98	1,704,441.01	(371,737.97)	1,704,441.01	264,420.01
9393365V1	1,406,019.24	-	1,406,019.24	1,388,720.27	(17,298.97)	1,388,720.27	1,194,171.17
94983YAQ2	3,193,194.30	-	3,193,194.30	3,131,994.05	(61,200.25)	3,131,994.05	2,947,135.10
94984DAB0	1,021,683.54	-	1,021,683.54	833,533.42	(188,150.12)	833,533.42	976,287.99
Totals	\$ 912,025,936.52	\$ -	\$ 912,025,936.52	\$ 890,494,220.76	\$ (21,531,715.76)	\$ 890,494,220.76	\$ 708,872,106.49

The following is the impairment listing for loan-backed and structured securities for the three months ended March 31, 2012:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
004421TD5	\$ 1,541,478.78	\$ -	\$ 1,541,478.78	\$ 1,410,937.96	\$ (130,540.82)	\$ 1,410,937.96	\$ 1,160,727.00
00442KAD3	2,395,326.62	-	2,395,326.62	2,395,101.25	(225.37)	2,395,101.25	1,521,724.23
02146QAB9	10,895,719.62	-	10,895,719.62	10,673,040.59	(222,679.03)	10,673,040.59	8,244,490.82
02146TAQ0	15,999,669.17	-	15,999,669.17	15,309,628.19	(690,040.98)	15,309,628.19	14,282,052.69
02147CAA1	4,886,961.13	-	4,886,961.13	4,786,262.94	(100,698.19)	4,786,262.94	4,301,092.71
02147DAB7	9,135,556.28	-	9,135,556.28	9,088,651.47	(46,904.81)	9,088,651.47	7,239,389.63
02660TBF9	327,103.62	-	327,103.62	285,583.53	(41,520.09)	285,583.53	1,778,116.87
02660TGN7	7,100,084.55	-	7,100,084.55	6,860,765.65	(239,318.90)	6,860,765.65	5,132,213.37
02660TGS6	6,093,795.49	-	6,093,795.49	5,839,316.48	(254,479.01)	5,839,316.48	4,314,368.41
02660TJB0	18,399,042.67	-	18,399,042.67	17,476,293.71	(922,748.96)	17,476,293.71	13,651,610.59
02660WAC0	13,883,025.83	-	13,883,025.83	13,581,227.11	(301,798.72)	13,581,227.11	10,161,104.14
02660XAD6	9,456,288.55	-	9,456,288.55	9,329,482.89	(126,805.66)	9,329,482.89	8,125,864.94
026929AA7	7,552,542.66	-	7,552,542.66	7,387,317.62	(165,225.04)	7,387,317.62	7,478,417.01
026929AD1	6,939,928.90	-	6,939,928.90	6,722,318.74	(217,610.16)	6,722,318.74	4,774,911.41
03072SPD1	319,295.58	-	319,295.58	298,291.97	(21,003.61)	298,291.97	235,286.54
040104QN4	2,426,705.81	-	2,426,705.81	2,331,964.02	(94,741.79)	2,331,964.02	1,807,560.64
040104RV5	1,727,754.49	-	1,727,754.49	1,691,200.14	(36,554.35)	1,691,200.14	1,474,364.84
055294AA0	2,486,190.72	-	2,486,190.72	2,338,711.82	(147,478.90)	2,338,711.82	2,131,805.20
05946XYP2	814,454.58	-	814,454.58	801,728.32	(12,726.26)	801,728.32	623,560.88
05948JAA0	258,465.04	-	258,465.04	252,159.50	(6,305.54)	252,159.50	235,148.74
05949ALH1	1,739,997.75	-	1,739,997.75	1,711,220.52	(28,777.23)	1,711,220.52	1,685,675.46
06652DAA7	5,308,816.43	-	5,308,816.43	4,942,102.09	(366,714.34)	4,942,102.09	3,588,766.66
07325YAB4	2,314,376.08	-	2,314,376.08	2,140,832.06	(173,544.02)	2,140,832.06	974,417.28
07384MS60	853,025.55	-	853,025.55	831,445.04	(21,580.51)	831,445.04	869,013.36
07384MW40	93,855.24	-	93,855.24	90,225.37	(3,629.87)	90,225.37	87,226.52
07384YCD6	4,712,263.70	-	4,712,263.70	4,700,372.07	(11,891.63)	4,700,372.07	4,622,443.03
073854AB7	11,646,801.16	-	11,646,801.16	11,090,325.43	(556,475.73)	11,090,325.43	8,251,368.05
07386HKS9	365,230.85	-	365,230.85	356,757.26	(8,473.59)	356,757.26	284,341.97
07386HSP7	5,001,191.32	-	5,001,191.32	4,814,088.09	(187,103.23)	4,814,088.09	3,538,709.24
073879PA0	1,325,589.72	-	1,325,589.72	1,070,146.74	(255,442.98)	1,070,146.74	1,192,698.90
073879Z92	8,269,046.89	-	8,269,046.89	7,304,182.97	(964,863.92)	7,304,182.97	4,642,737.08
07400XAB4	2,493,410.68	-	2,493,410.68	2,219,747.35	(273,663.33)	2,219,747.35	1,736,454.28
07401LAA1	10,985,395.03	-	10,985,395.03	10,748,110.46	(237,284.57)	10,748,110.46	8,005,394.60
07820QAY1	10,959,891.90	-	10,959,891.90	10,746,714.17	(213,177.73)	10,746,714.17	8,482,106.39
078446AB7	90,796.00	-	90,796.00	87,400.00	(3,396.00)	87,400.00	79,000.00
12489WQE7	1,401,150.00	-	1,401,150.00	1,280,293.44	(120,856.56)	1,280,293.44	1,069,498.20
1248MGAJ3	60,091.11	-	60,091.11	59,425.51	(665.60)	59,425.51	38,234.58
1248RHAD9	4,325,510.23	-	4,325,510.23	4,134,659.67	(190,850.56)	4,134,659.67	2,774,406.69
126670KN7	1,600,602.33	-	1,600,602.33	1,575,180.03	(25,422.30)	1,575,180.03	1,063,851.00
12667GME0	13,713,436.77	-	13,713,436.77	13,278,268.12	(435,168.65)	13,278,268.12	9,721,775.02
12667GS20	10,264,427.49	-	10,264,427.49	9,940,807.95	(323,619.54)	9,940,807.95	7,946,417.99
12667GWF6	5,429,128.20	-	5,429,128.20	5,252,471.01	(176,657.19)	5,252,471.01	4,487,864.92
12668ACZ6	2,886,654.48	-	2,886,654.48	2,793,497.18	(93,157.30)	2,793,497.18	2,183,933.81
12668AEV3	9,203,882.37	-	9,203,882.37	9,081,174.15	(122,708.22)	9,081,174.15	7,186,527.46

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12668BB77	\$ 18,649,318.82	\$ -	\$ 18,649,318.82	\$ 18,132,784.56	\$ (516,534.26)	\$ 18,132,784.56	\$ 14,394,804.84
12668BDC4	3,983,835.93	-	3,983,835.93	3,891,591.79	(92,244.14)	3,891,591.79	3,609,084.51
12668BE33	11,642,199.60	-	11,642,199.60	11,317,250.91	(324,948.69)	11,317,250.91	8,736,563.82
126694N46	262,895.68	-	262,895.68	252,818.21	(10,077.47)	252,818.21	190,328.98
12669FW82	902,300.53	-	902,300.53	895,243.26	(7,057.27)	895,243.26	706,675.89
12669FXR9	388,655.33	-	388,655.33	380,989.81	(7,665.52)	380,989.81	320,831.24
12669GKH3	10,051,971.22	-	10,051,971.22	10,021,811.07	(30,160.15)	10,021,811.07	8,503,256.03
12669GTV3	272,122.68	-	272,122.68	271,005.37	(1,117.31)	271,005.37	228,275.79
14453MAB0	7,217,252.91	-	7,217,252.91	6,889,100.18	(328,152.73)	6,889,100.18	5,158,938.30
14454AAB5	2,207,453.83	-	2,207,453.83	2,117,514.50	(89,939.33)	2,117,514.50	1,279,345.96
22540VG71	140,062.06	-	140,062.06	139,978.41	(83.65)	139,978.41	139,073.65
22541SXR4	1,709,465.06	-	1,709,465.06	1,492,820.18	(216,644.88)	1,492,820.18	1,299,062.20
22943HAD8	7,131,103.11	-	7,131,103.11	6,646,084.16	(485,018.95)	6,646,084.16	3,357,660.00
23243AAD8	805,944.91	-	805,944.91	797,018.74	(8,926.17)	797,018.74	597,992.38
23245QAA7	1,727,753.59	-	1,727,753.59	1,718,025.90	(9,727.69)	1,718,025.90	1,363,739.28
23321P6A1	6,609,224.73	-	6,609,224.73	6,562,473.22	(46,751.51)	6,562,473.22	6,500,654.87
23332UAC8	3,551,216.74	-	3,551,216.74	3,514,316.65	(36,900.09)	3,514,316.65	3,555,674.27
23332UAR5	7,518,876.78	-	7,518,876.78	7,360,807.33	(158,069.45)	7,360,807.33	6,455,329.52
23332UBG8	4,994,451.88	-	4,994,451.88	4,968,649.39	(25,802.49)	4,968,649.39	4,227,393.48
23332UBV5	4,517,713.70	-	4,517,713.70	4,358,310.64	(159,403.06)	4,358,310.64	3,376,201.08
23332UCM4	456,025.18	-	456,025.18	445,483.07	(10,542.11)	445,483.07	338,358.68
23332UDU5	16,243,411.86	-	16,243,411.86	15,734,742.43	(508,669.43)	15,734,742.43	11,971,159.92
23332UFV1	1,191,062.65	-	1,191,062.65	1,149,655.16	(41,407.49)	1,149,655.16	845,614.59
251508AB3	5,676,835.00	-	5,676,835.00	5,357,184.11	(319,650.89)	5,357,184.11	4,158,512.34
251510EH2	27,638,378.13	-	27,638,378.13	27,269,765.52	(368,612.61)	27,269,765.52	27,195,308.59
251510FB4	4,820,200.29	-	4,820,200.29	4,332,693.35	(487,506.94)	4,332,693.35	3,832,205.46
251510NC3	11,965,587.73	-	11,965,587.73	11,776,591.76	(188,995.97)	11,776,591.76	4,585,849.60
32051DV33	403,355.79	-	403,355.79	394,502.16	(8,853.63)	394,502.16	367,733.88
32113JAA3	569,877.88	-	569,877.88	543,309.23	(26,568.65)	543,309.23	376,905.09
32113JBV6	230,051.25	-	230,051.25	176,397.60	(53,653.65)	176,397.60	192,129.00
36185NXT2	268,325.56	-	268,325.56	175,621.66	(92,703.90)	175,621.66	316,221.25
36228F5R3	976,815.96	-	976,815.96	958,484.96	(18,331.00)	958,484.96	807,194.73
36242DBJ1	1,961,689.07	-	1,961,689.07	1,856,689.57	(104,999.50)	1,856,689.57	1,861,498.54
39538RAB5	8,616,986.44	-	8,616,986.44	8,367,596.90	(249,389.54)	8,367,596.90	5,860,543.99
39538RBB4	9,413,913.44	-	9,413,913.44	9,410,984.13	(2,929.31)	9,410,984.13	6,930,842.27
39538WFH6	7,948,985.62	-	7,948,985.62	7,620,162.49	(328,823.13)	7,620,162.49	5,523,915.91
39538WHF8	22,086,753.69	-	22,086,753.69	21,593,651.97	(493,101.72)	21,593,651.97	16,675,698.58
39539GAA0	3,397,104.29	-	3,397,104.29	3,319,866.07	(77,238.22)	3,319,866.07	2,696,913.28
41161PFR9	972,453.93	-	972,453.93	931,971.37	(40,482.56)	931,971.37	869,475.99
41161PHC0	5,976,410.27	-	5,976,410.27	5,859,090.03	(117,320.24)	5,859,090.03	4,998,700.00
41161PKH5	376,603.13	-	376,603.13	370,387.02	(6,216.11)	370,387.02	302,895.91
41161PLR2	9,107,824.64	-	9,107,824.64	9,083,332.79	(24,491.85)	9,083,332.79	7,557,536.03
41161PMG5	11,392,890.83	-	11,392,890.83	11,373,456.98	(19,433.85)	11,373,456.98	8,933,479.26
41161PQU0	9,998,662.15	-	9,998,662.15	9,942,331.46	(56,330.69)	9,942,331.46	7,486,266.01
41161PSK0	3,759,700.11	-	3,759,700.11	3,732,298.23	(27,401.88)	3,732,298.23	2,711,746.87
41161PTN3	1,640,764.05	-	1,640,764.05	1,626,995.41	(13,768.64)	1,626,995.41	1,279,567.67
41161PWB5	5,125,239.88	-	5,125,239.88	5,024,830.39	(100,409.49)	5,024,830.39	3,784,557.48
41161PXH1	605,264.81	-	605,264.81	583,450.59	(21,814.22)	583,450.59	473,512.09
41164LAB5	9,914,403.89	-	9,914,403.89	9,413,003.05	(501,400.84)	9,413,003.05	6,728,155.04
41164YAB7	9,426,071.83	-	9,426,071.83	9,029,263.32	(396,808.51)	9,029,263.32	6,937,074.58
43739EAP2	15,892,294.60	-	15,892,294.60	15,100,129.23	(792,165.37)	15,100,129.23	12,762,626.54
43739EBJ5	7,433,454.10	-	7,433,454.10	7,330,446.41	(103,007.69)	7,330,446.41	5,734,397.77
43739EBS5	7,074,976.18	-	7,074,976.18	6,782,747.49	(292,228.69)	6,782,747.49	6,161,117.75
45071KDD3	967,257.51	-	967,257.51	931,207.00	(36,050.51)	931,207.00	638,192.15
45254NHV2	205,981.14	-	205,981.14	168,142.66	(37,838.48)	168,142.66	192,398.26
45254NJG3	1,033,154.31	-	1,033,154.31	1,032,534.21	(620.10)	1,032,534.21	905,041.20
45254NJV0	826,667.71	-	826,667.71	801,434.34	(25,233.37)	801,434.34	683,358.39
45254NKF3	3,980,458.00	-	3,980,458.00	3,906,155.45	(74,302.55)	3,906,155.45	3,871,195.69
45254NKX4	4,687,527.42	-	4,687,527.42	4,628,756.97	(58,770.45)	4,628,756.97	3,703,600.29
45254NMB0	916,309.19	-	916,309.19	868,450.30	(47,858.89)	868,450.30	872,999.52
45254NML8	1,273,472.38	-	1,273,472.38	1,247,172.27	(26,300.11)	1,247,172.27	951,222.56
45254NNP8	10,457,506.80	-	10,457,506.80	10,003,436.90	(454,069.90)	10,003,436.90	8,298,478.07
45254NPA9	12,211,454.46	-	12,211,454.46	11,543,544.98	(667,909.48)	11,543,544.98	11,250,393.17
45254NPU5	4,227,084.10	-	4,227,084.10	4,042,808.91	(184,275.19)	4,042,808.91	3,271,167.96
45254TRX4	256,661.45	-	256,661.45	226,757.04	(29,904.41)	226,757.04	215,201.93
45254TSM7	3,025,186.92	-	3,025,186.92	2,841,491.66	(183,695.26)	2,841,491.66	1,928,676.55
452570AA2	41,144.59	-	41,144.59	40,265.04	(879.55)	40,265.04	35,536.27
45257EAA2	3,506,726.63	-	3,506,726.63	3,413,984.55	(92,742.08)	3,413,984.55	2,346,939.42
45660LKW8	20,789,538.85	-	20,789,538.85	20,155,606.62	(633,932.23)	20,155,606.62	15,031,011.94
45660LW96	2,244,719.45	-	2,244,719.45	2,015,936.25	(228,783.20)	2,015,936.25	1,477,893.44
45660LYW3	2,999,030.11	-	2,999,030.11	2,812,862.16	(186,167.95)	2,812,862.16	2,310,276.26
45660N2Y0	995,830.45	-	995,830.45	992,315.54	(3,514.91)	992,315.54	887,542.22

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45660N3S2	\$ 3,478,437.00	\$ -	\$ 3,478,437.00	\$ 3,346,920.38	\$ (131,516.62)	\$ 3,346,920.38	\$ 3,261,927.28
45660N5H4	4,498,604.93	-	4,498,604.93	4,430,000.78	(68,604.15)	4,430,000.78	4,090,846.53
45660NQ24	1,596,170.10	-	1,596,170.10	1,567,652.65	(28,517.45)	1,567,652.65	1,589,921.57
45660NS30	1,878,549.93	-	1,878,549.93	1,823,002.14	(55,547.79)	1,823,002.14	1,428,750.38
466247UG6	1,858,571.15	-	1,858,571.15	1,853,523.72	(5,047.43)	1,853,523.72	1,638,667.84
466247XE8	5,098,878.46	-	5,098,878.46	4,756,829.28	(342,049.18)	4,756,829.28	3,549,572.14
46627MBQ9	9,966,973.52	-	9,966,973.52	9,858,645.79	(108,327.73)	9,858,645.79	7,378,229.89
525221AJ6	2,175,068.95	-	2,175,068.95	2,033,565.98	(141,502.97)	2,033,565.98	1,560,091.15
525221CD7	152,043.25	-	152,043.25	112,050.22	(39,993.03)	112,050.22	66,257.01
525221GB7	19,174.30	-	19,174.30	17,247.88	(1,926.42)	17,247.88	19,075.91
525221GM3	2,560,679.09	-	2,560,679.09	2,537,042.98	(23,636.11)	2,537,042.98	1,798,653.12
525221HA8	18,888,675.30	-	18,888,675.30	18,481,380.29	(407,295.01)	18,481,380.29	12,508,092.40
525226AL0	229,264.31	-	229,264.31	220,591.66	(8,672.65)	220,591.66	96,896.74
52524VAG4	10,574,372.31	-	10,574,372.31	9,921,557.84	(652,814.47)	9,921,557.84	7,061,491.50
52524YAF0	9,034,562.30	-	9,034,562.30	8,596,206.31	(438,355.99)	8,596,206.31	7,300,750.22
55027AAR1	8,813,938.63	-	8,813,938.63	8,630,175.37	(183,763.26)	8,630,175.37	5,914,032.92
55027AAU4	4,526,246.37	-	4,526,246.37	4,517,419.63	(8,826.74)	4,517,419.63	2,780,462.78
55027BAA6	12,285,298.71	-	12,285,298.71	11,784,476.39	(500,822.32)	11,784,476.39	8,040,677.77
55274SAM3	853,764.61	-	853,764.61	809,021.39	(44,743.22)	809,021.39	758,739.12
576433RU2	1,589,222.62	-	1,589,222.62	1,413,288.62	(175,934.00)	1,413,288.62	901,456.80
576433SE7	1,473,558.55	-	1,473,558.55	1,384,619.97	(88,938.58)	1,384,619.97	927,185.40
576433YN0	1,095,009.66	-	1,095,009.66	1,027,252.02	(67,757.64)	1,027,252.02	855,517.53
576438AA3	2,772,874.50	-	2,772,874.50	2,735,452.93	(37,421.57)	2,735,452.93	2,386,350.79
589929E87	717,942.89	-	717,942.89	286,243.10	(431,699.79)	286,243.10	630,250.68
589929N38	1,243,884.27	-	1,243,884.27	1,241,259.14	(2,625.13)	1,241,259.14	1,231,075.05
59020UAC9	816,907.77	-	816,907.77	805,228.23	(11,679.54)	805,228.23	805,277.49
59020UGT6	545,474.33	-	545,474.33	535,964.36	(9,509.97)	535,964.36	517,393.38
59020UQ57	3,310,924.04	-	3,310,924.04	3,189,539.48	(121,384.56)	3,189,539.48	1,971,499.60
59020UUJ2	3,289,666.68	-	3,289,666.68	3,169,216.78	(120,449.90)	3,169,216.78	3,200,045.49
61757MAB4	2,382,559.50	-	2,382,559.50	2,340,336.74	(42,222.76)	2,340,336.74	1,858,918.62
61913PAA0	10,651,097.34	-	10,651,097.34	10,464,364.59	(186,732.75)	10,464,364.59	9,767,517.80
61915RBB1	6,023,633.04	-	6,023,633.04	5,754,605.39	(269,027.65)	5,754,605.39	4,336,296.24
61915RBZ8	669,139.99	-	669,139.99	604,831.35	(64,308.64)	604,831.35	465,167.50
63543VAJ2	40,000.00	-	40,000.00	-	(40,000.00)	-	2,005.00
63543WAH4	20,000.00	-	20,000.00	-	(20,000.00)	-	1,002.50
638728AC9	2,055,699.50	-	2,055,699.50	1,922,163.98	(133,535.52)	1,922,163.98	1,291,147.13
64352VEG2	41,229.63	-	41,229.63	39,516.51	(1,713.12)	39,516.51	35,085.80
65535VRK6	1,336,850.21	-	1,336,850.21	1,227,362.11	(109,488.10)	1,227,362.11	1,178,719.24
65535VUS5	1,912,441.58	-	1,912,441.58	1,592,624.47	(319,817.11)	1,592,624.47	1,115,885.50
65538DAA3	2,022,754.61	-	2,022,754.61	1,972,489.60	(50,265.01)	1,972,489.60	1,485,269.84
66987XBV6	15,740.65	-	15,740.65	15,644.39	(96.26)	15,644.39	11,266.45
68383NCA9	19,214,216.01	-	19,214,216.01	17,941,351.23	(1,272,864.78)	17,941,351.23	17,175,513.76
68383NCD3	2,836,373.23	-	2,836,373.23	2,733,782.64	(102,590.59)	2,733,782.64	2,211,048.00
68383NCU5	7,029,914.99	-	7,029,914.99	6,727,429.14	(302,485.85)	6,727,429.14	5,826,571.86
68383NDT7	7,181,520.77	-	7,181,520.77	6,898,726.69	(282,794.08)	6,898,726.69	5,018,062.33
69121PDX8	617,481.80	-	617,481.80	604,683.33	(12,798.47)	604,683.33	542,775.54
73316PJD3	18,605.09	-	18,605.09	17,713.45	(891.64)	17,713.45	16,406.54
74922AAA5	12,679,252.17	-	12,679,252.17	11,642,687.30	(1,036,564.87)	11,642,687.30	5,911,267.00
75114GAC3	16,312,860.13	-	16,312,860.13	16,016,842.11	(296,018.02)	16,016,842.11	10,955,918.68
75114HAK3	5,022,189.36	-	5,022,189.36	4,507,828.16	(514,361.20)	4,507,828.16	2,242,032.56
75114NAA2	7,298,612.09	-	7,298,612.09	7,003,759.73	(294,852.36)	7,003,759.73	6,899,627.44
75114NAB0	2,563,455.57	-	2,563,455.57	2,483,185.89	(80,269.68)	2,483,185.89	2,117,197.82
760985U33	509,676.94	-	509,676.94	475,747.93	(33,929.01)	475,747.93	407,806.95
76110GG62	4,708,994.47	-	4,708,994.47	4,705,536.74	(3,457.73)	4,705,536.74	4,598,768.84
76110GUG4	1,356,218.47	-	1,356,218.47	1,266,983.64	(89,234.83)	1,266,983.64	1,197,582.26
76110GV40	2,587,840.16	-	2,587,840.16	2,564,988.57	(22,851.59)	2,564,988.57	2,587,416.43
76110GYL9	1,197,953.08	-	1,197,953.08	1,181,061.50	(16,891.58)	1,181,061.50	1,150,080.59
76110GZQ7	6,274,801.03	-	6,274,801.03	6,267,825.64	(6,975.39)	6,267,825.64	5,694,009.32
761118FM5	8,786,770.05	-	8,786,770.05	8,718,432.40	(68,337.65)	8,718,432.40	8,459,257.98
761118KU1	5,709,061.61	-	5,709,061.61	5,677,289.27	(31,772.34)	5,677,289.27	4,403,418.36
761118RJ9	335,180.00	-	335,180.00	306,423.01	(28,756.99)	306,423.01	212,662.32
761118WP9	9,538,195.82	-	9,538,195.82	9,269,846.80	(268,349.02)	9,269,846.80	7,311,817.19
79548KXQ6	954,928.14	-	954,928.14	954,084.99	(843.15)	954,084.99	853,419.59
81744FDK0	2,092,138.64	-	2,092,138.64	2,042,181.46	(49,957.18)	2,042,181.46	1,878,537.33
84752CAE7	922,128.17	-	922,128.17	864,026.06	(58,102.11)	864,026.06	532,194.00
863579YR3	5,800,122.84	-	5,800,122.84	5,691,326.40	(108,796.44)	5,691,326.40	4,960,267.50
86358HHX0	850,295.57	-	850,295.57	834,115.33	(16,180.24)	834,115.33	738,737.06
86358R5Q6	130,462.93	-	130,462.93	129,639.51	(823.42)	129,639.51	91,587.39
86359BLB5	1,190,395.59	-	1,190,395.59	1,136,961.18	(53,434.41)	1,136,961.18	1,136,472.19
86359BPM7	1,679,176.04	-	1,679,176.04	1,550,869.89	(128,306.15)	1,550,869.89	1,617,498.90
86359ddb0	1,569,797.63	-	1,569,797.63	1,492,410.51	(77,387.12)	1,492,410.51	1,194,289.20
86359DUL9	171,135.57	-	171,135.57	151,790.39	(19,345.18)	151,790.39	118,450.32

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
86359DUR6	\$ 16,100,641.47	\$ -	\$ 16,100,641.47	\$ 14,395,351.74	\$ (1,705,289.73)	\$ 14,395,351.74	\$ 12,057,019.26
86359LRW1	18,217,847.02	-	18,217,847.02	17,552,510.90	(665,336.12)	17,552,510.90	12,611,282.19
86359LSM2	1,179,854.16	-	1,179,854.16	1,171,235.90	(8,618.26)	1,171,235.90	896,557.36
86360JAA9	9,930,486.18	-	9,930,486.18	9,807,786.93	(122,699.25)	9,807,786.93	5,749,101.39
86360JAE1	7,863,883.50	-	7,863,883.50	7,535,234.54	(328,648.96)	7,535,234.54	4,844,021.57
86360JAN1	2,692,201.41	-	2,692,201.41	2,611,682.30	(80,519.11)	2,611,682.30	1,910,187.65
86360KAF5	29,969,985.34	-	29,969,985.34	28,689,583.87	(1,280,401.47)	28,689,583.87	19,075,429.14
86360UAF3	3,512,468.29	-	3,512,468.29	3,406,928.31	(105,539.98)	3,406,928.31	2,551,088.33
86361HAA2	10,860,985.24	-	10,860,985.24	10,625,787.14	(235,198.10)	10,625,787.14	7,684,242.94
86363DAA9	7,729,678.91	-	7,729,678.91	7,586,789.20	(142,889.71)	7,586,789.20	6,116,117.88
88157QAL2	730,636.82	-	730,636.82	688,198.66	(42,438.16)	688,198.66	1,445,388.57
885220FS7	6,244,948.67	-	6,244,948.67	6,115,574.11	(129,374.56)	6,115,574.11	5,915,982.78
92922F4M7	4,100,283.51	-	4,100,283.51	4,038,214.83	(62,068.68)	4,038,214.83	3,146,706.43
92922F5T1	6,891,099.64	-	6,891,099.64	6,762,312.85	(128,786.79)	6,762,312.85	5,418,474.95
92922F7Q5	8,367,286.66	-	8,367,286.66	8,169,617.62	(197,669.04)	8,169,617.62	6,971,923.88
92922FB72	1,137,389.38	-	1,137,389.38	1,129,171.97	(8,217.41)	1,129,171.97	946,584.74
92922FJ25	5,898,980.50	-	5,898,980.50	5,836,627.64	(62,352.86)	5,836,627.64	4,676,644.66
92922FNW4	1,134,371.16	-	1,134,371.16	1,117,835.65	(16,535.51)	1,117,835.65	1,395,404.61
92922FTJ7	1,168,665.75	-	1,168,665.75	1,143,885.94	(24,779.81)	1,143,885.94	1,013,759.76
92922FWU8	3,303,246.56	-	3,303,246.56	3,294,106.06	(9,140.50)	3,294,106.06	3,051,711.28
92922FZF8	7,617,616.38	-	7,617,616.38	7,486,561.21	(131,055.17)	7,486,561.21	6,731,075.80
92925CBB7	3,984,744.80	-	3,984,744.80	3,911,784.26	(72,960.54)	3,911,784.26	3,027,193.79
92977YAY7	2,181,128.20	-	2,181,128.20	2,078,551.98	(102,576.22)	2,078,551.98	435,320.01
92979DAA3	528,185.64	-	528,185.64	503,764.51	(24,421.13)	503,764.51	485,264.03
9393365V1	1,510,356.37	-	1,510,356.37	1,462,513.62	(47,842.75)	1,462,513.62	1,290,442.98
939336X65	10,621,910.39	-	10,621,910.39	10,460,382.36	(161,528.03)	10,460,382.36	9,715,875.92
93934FHC9	7,516,620.41	-	7,516,620.41	7,369,587.44	(147,032.97)	7,369,587.44	5,701,088.93
94983YAQ2	3,327,295.71	-	3,327,295.71	3,281,408.19	(45,887.52)	3,281,408.19	3,223,221.00
984582AA4	1,864,226.41	-	1,864,226.41	1,842,202.41	(22,024.00)	1,842,202.41	1,813,356.38
Totals	\$ 1,095,018,529.18	\$ -	\$ 1,095,018,529.18	\$ 1,058,132,041.09	\$ (36,886,488.09)	\$ 1,058,132,041.09	\$ 841,095,012.78

The following is the impairment listing for loan-backed and structured securities for the three months ended December 31, 2011:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 290,000.00	\$ -	\$ 290,000.00	\$ 200,000.00	\$ (90,000.00)	\$ 200,000.00	\$ 197,500.00
004421TD5	1,546,418.44	-	1,546,418.44	1,520,650.48	(25,767.96)	1,520,650.48	824,835.00
02146QAB9	11,452,492.39	-	11,452,492.39	11,361,248.53	(91,243.86)	11,361,248.53	7,866,202.16
02378HAD4	367,332.93	-	367,332.93	337,734.53	(29,598.40)	337,734.53	305,723.66
02660TGN7	7,722,822.75	-	7,722,822.75	7,343,578.95	(379,243.80)	7,343,578.95	4,589,533.38
02660TGS6	6,197,599.53	-	6,197,599.53	6,181,006.28	(16,593.25)	6,181,006.28	3,694,958.07
02660THL0	1,402,810.28	-	1,402,810.28	1,375,244.82	(27,565.46)	1,375,244.82	1,041,592.30
02660TJB0	19,888,768.87	-	19,888,768.87	19,027,573.02	(861,195.85)	19,027,573.02	11,433,612.97
02660WAC0	14,889,748.57	-	14,889,748.57	14,326,373.17	(563,375.40)	14,326,373.17	8,420,984.41
02660XAD6	9,909,777.67	-	9,909,777.67	9,620,776.10	(289,001.57)	9,620,776.10	7,033,543.29
026929AA7	8,314,700.91	-	8,314,700.91	7,761,745.72	(552,955.19)	7,761,745.72	6,803,501.16
040104RV5	1,815,487.74	-	1,815,487.74	1,779,688.34	(35,799.40)	1,779,688.34	1,244,624.23
05946XYP2	858,527.17	-	858,527.17	852,946.85	(5,580.32)	852,946.85	618,596.18
06050HKX5	387,934.12	-	387,934.12	223,453.11	(164,481.01)	223,453.11	275,883.14
06652DAA7	5,653,509.94	-	5,653,509.94	5,451,349.03	(202,160.91)	5,451,349.03	3,141,543.41
07384MS60	946,323.45	-	946,323.45	937,885.49	(8,437.96)	937,885.49	882,516.28
07384MW40	101,794.03	-	101,794.03	98,994.58	(2,799.45)	98,994.58	86,636.87
07384YCD6	5,109,617.42	-	5,109,617.42	5,052,861.49	(56,755.93)	5,052,861.49	4,946,782.61
073854AB7	12,157,202.09	-	12,157,202.09	11,643,369.98	(513,832.11)	11,643,369.98	7,509,572.89
07386HNQ0	1,014,112.70	-	1,014,112.70	953,185.52	(60,927.18)	953,185.52	986,679.13
07386HSP7	5,163,522.20	-	5,163,522.20	5,151,860.98	(11,661.22)	5,151,860.98	3,361,256.11
073879Z92	9,127,954.02	-	9,127,954.02	8,245,583.49	(882,370.53)	8,245,583.49	4,646,352.09
07400XAB4	2,714,019.22	-	2,714,019.22	2,492,413.21	(221,606.01)	2,492,413.21	1,540,926.62
07401LAA1	11,912,911.04	-	11,912,911.04	11,455,305.29	(457,605.75)	11,455,305.29	7,629,910.89
07820QAY1	12,032,870.74	-	12,032,870.74	11,585,273.09	(447,597.65)	11,585,273.09	8,440,267.15
12489WQE7	1,427,514.24	-	1,427,514.24	1,400,940.50	(26,573.74)	1,400,940.50	1,108,303.40
1248MGAJ3	63,896.96	-	63,896.96	62,339.48	(1,557.48)	62,339.48	50,948.40
12498NAB9	672,120.26	-	672,120.26	667,192.58	(4,927.68)	667,192.58	661,207.59
12544EAA5	1,032,794.47	-	1,032,794.47	1,006,182.23	(26,612.24)	1,006,182.23	1,000,439.95
126670KN7	1,673,592.83	-	1,673,592.83	1,587,143.85	(86,448.98)	1,587,143.85	928,449.00
126670NX2	629,920.97	-	629,920.97	598,984.29	(30,936.68)	598,984.29	628,492.32
126670QS0	65,308.35	-	65,308.35	60,154.73	(5,153.62)	60,154.73	62,264.06
126671UU8	55,243.58	-	55,243.58	53,727.58	(1,516.00)	53,727.58	42,073.42
12667GCB7	158,888.66	-	158,888.66	154,659.01	(4,229.65)	154,659.01	110,639.93

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12667GME0	\$ 14,328,349.06	\$ -	\$ 14,328,349.06	\$ 14,106,806.02	\$ (221,543.04)	\$ 14,106,806.02	\$ 9,039,627.79
12667GR62	5,526,850.88	-	5,526,850.88	5,290,622.87	(236,228.01)	5,290,622.87	4,417,377.65
12667GS20	10,828,203.97	-	10,828,203.97	10,581,507.54	(246,696.43)	10,581,507.54	7,003,128.98
12667GWF6	5,961,791.83	-	5,961,791.83	5,584,597.23	(377,194.60)	5,584,597.23	3,785,872.31
12668ACG8	3,334,988.97	-	3,334,988.97	2,975,767.14	(359,221.83)	2,975,767.14	2,907,149.77
12668ACY9	710,246.66	-	710,246.66	616,361.95	(93,884.71)	616,361.95	564,386.87
12668ACZ6	3,158,319.27	-	3,158,319.27	2,995,112.36	(163,206.91)	2,995,112.36	1,729,278.58
12668AEV3	9,660,488.00	-	9,660,488.00	9,502,105.96	(158,382.04)	9,502,105.96	6,458,297.48
12668AGW9	215,254.49	-	215,254.49	213,364.89	(1,889.60)	213,364.89	147,194.78
12668BDC4	4,368,811.57	-	4,368,811.57	4,083,275.98	(285,535.59)	4,083,275.98	3,194,726.07
12668BE33	12,237,495.62	-	12,237,495.62	12,171,201.11	(66,294.51)	12,171,201.11	7,829,824.65
126694N46	3,345,585.12	-	3,345,585.12	2,824,649.71	(520,935.41)	2,824,649.71	3,067,731.20
12669FXR9	410,254.47	-	410,254.47	395,368.17	(14,886.30)	395,368.17	304,010.18
12669GKH3	10,545,309.79	-	10,545,309.79	10,352,747.02	(192,562.77)	10,352,747.02	7,248,298.96
12669GRQ6	5,343,000.43	-	5,343,000.43	5,291,293.60	(51,706.83)	5,291,293.60	4,910,079.83
12669GTV3	282,816.99	-	282,816.99	279,945.17	(2,871.82)	279,945.17	198,880.70
12669GUR0	2,944,056.20	-	2,944,056.20	2,776,388.76	(167,667.44)	2,776,388.76	2,000,194.28
152314MJ6	1,010,344.96	-	1,010,344.96	820,580.41	(189,764.55)	820,580.41	865,075.90
22540VG71	142,416.02	-	142,416.02	142,038.12	(377.90)	142,038.12	140,900.89
22943HAD8	8,483,907.95	-	8,483,907.95	7,120,743.07	(1,363,164.88)	7,120,743.07	4,517,820.00
23245QAA7	1,870,383.26	-	1,870,383.26	1,781,925.02	(88,458.24)	1,781,925.02	1,160,199.25
23321P6A1	7,120,470.73	-	7,120,470.73	7,018,811.72	(101,659.01)	7,018,811.72	6,982,061.95
23332UAC8	3,904,676.74	-	3,904,676.74	3,622,960.98	(281,715.76)	3,622,960.98	3,216,228.55
23332UAR5	8,042,640.20	-	8,042,640.20	7,710,516.83	(332,123.37)	7,710,516.83	5,847,690.31
23332UBG8	5,263,482.84	-	5,263,482.84	5,016,173.22	(247,309.62)	5,016,173.22	3,794,630.78
23332UBV5	4,758,189.71	-	4,758,189.71	4,723,676.14	(34,513.57)	4,723,676.14	3,020,467.39
23332UCM4	482,401.73	-	482,401.73	462,753.76	(19,647.97)	462,753.76	330,858.24
23332UDU5	17,209,535.70	-	17,209,535.70	16,626,954.38	(582,581.32)	16,626,954.38	10,401,707.71
23332UFV1	1,246,925.88	-	1,246,925.88	1,218,009.68	(28,916.20)	1,218,009.68	772,827.86
251510EH2	28,096,487.64	-	28,096,487.64	28,045,050.16	(51,437.48)	28,045,050.16	26,312,412.76
251510FB4	3,889,890.10	-	3,889,890.10	3,879,344.81	(10,545.29)	3,879,344.81	2,981,443.13
251510NC3	11,998,251.48	-	11,998,251.48	11,939,470.36	(58,781.12)	11,939,470.36	3,231,821.40
30251YAB4	6,821,818.83	-	6,821,818.83	6,722,410.64	(99,408.19)	6,722,410.64	5,278,923.41
32051DCJ9	567,873.90	-	567,873.90	564,800.37	(3,073.53)	564,800.37	539,435.31
32053LAA0	168,781.82	-	168,781.82	162,542.90	(6,238.92)	162,542.90	164,562.26
32056JAA2	151,729.90	-	151,729.90	145,187.12	(6,542.78)	145,187.12	138,736.21
32113JAA3	597,171.91	-	597,171.91	577,362.62	(19,809.29)	577,362.62	367,622.17
36228FC53	830,865.79	-	830,865.79	719,447.10	(111,418.69)	719,447.10	755,146.70
362341VU0	21,642,269.81	-	21,642,269.81	21,108,962.14	(533,307.67)	21,108,962.14	21,499,857.50
36242DBJ1	427,777.96	-	427,777.96	425,057.26	(2,720.70)	425,057.26	422,333.65
36298XAB8	19,002,807.56	-	19,002,807.56	18,625,171.48	(377,636.08)	18,625,171.48	18,219,555.59
39538RAB5	9,304,989.19	-	9,304,989.19	8,826,072.74	(478,916.45)	8,826,072.74	5,738,051.45
39538RBB4	10,128,998.42	-	10,128,998.42	9,632,687.46	(496,310.96)	9,632,687.46	6,646,599.65
39538WFH6	8,549,004.95	-	8,549,004.95	8,162,882.79	(386,122.16)	8,162,882.79	5,178,967.53
39538WHF8	23,489,894.54	-	23,489,894.54	22,622,853.22	(867,041.32)	22,622,853.22	13,769,229.29
39539GAA0	3,582,107.30	-	3,582,107.30	3,480,487.25	(101,620.05)	3,480,487.25	2,374,367.64
41161PFR9	1,033,082.03	-	1,033,082.03	1,029,854.56	(3,227.47)	1,029,854.56	847,612.03
41161PHC0	6,513,447.11	-	6,513,447.11	6,085,959.30	(427,487.81)	6,085,959.30	4,647,189.86
41161PHU0	6,179,446.69	-	6,179,446.69	6,085,207.17	(94,239.52)	6,085,207.17	4,891,633.96
41161PKH5	398,408.65	-	398,408.65	394,205.87	(4,202.78)	394,205.87	264,797.71
41161PLR2	9,608,493.34	-	9,608,493.34	9,373,928.43	(234,564.91)	9,373,928.43	7,065,418.61
41161PMG5	11,965,773.37	-	11,965,773.37	11,740,798.18	(224,975.19)	11,740,798.18	9,134,717.71
41161PQU0	10,639,729.89	-	10,639,729.89	10,361,876.18	(277,853.71)	10,361,876.18	7,084,717.87
41161PSK0	3,899,690.47	-	3,899,690.47	3,835,365.43	(64,325.04)	3,835,365.43	2,896,665.46
41161PTN3	1,726,455.40	-	1,726,455.40	1,680,824.19	(45,631.21)	1,680,824.19	1,162,819.32
41161PWB5	5,433,234.88	-	5,433,234.88	5,264,188.65	(169,046.23)	5,264,188.65	3,417,999.61
41161PXH1	635,491.30	-	635,491.30	616,308.82	(19,182.48)	616,308.82	444,323.95
41164LAB5	10,449,007.70	-	10,449,007.70	10,235,230.71	(213,776.99)	10,235,230.71	6,723,398.30
41164YAB7	9,958,270.74	-	9,958,270.74	9,632,612.85	(325,657.89)	9,632,612.85	6,258,429.56
43739EAP2	16,575,973.30	-	16,575,973.30	16,187,293.48	(388,679.82)	16,187,293.48	10,405,726.23
45071KDD3	1,086,382.12	-	1,086,382.12	1,059,550.60	(26,831.52)	1,059,550.60	745,093.48
45254NHV2	224,089.33	-	224,089.33	209,941.80	(14,147.53)	209,941.80	193,979.45
45254NJV0	867,029.04	-	867,029.04	850,377.46	(16,651.58)	850,377.46	681,335.15
45254NKF3	4,230,253.82	-	4,230,253.82	4,075,133.53	(155,120.29)	4,075,133.53	3,791,309.83
45254NMB0	975,328.92	-	975,328.92	932,473.13	(42,855.79)	932,473.13	793,129.67
45254NML8	1,322,330.29	-	1,322,330.29	1,293,159.75	(29,170.54)	1,293,159.75	925,528.46
45254NNP8	10,735,821.01	-	10,735,821.01	10,652,269.05	(83,551.96)	10,652,269.05	8,014,093.27
45254NPA9	12,692,475.65	-	12,692,475.65	12,385,091.91	(307,383.74)	12,385,091.91	10,418,439.77
45254NPU5	4,430,090.91	-	4,430,090.91	4,293,231.61	(136,859.30)	4,293,231.61	3,402,629.51
45254TRX4	265,240.20	-	265,240.20	258,108.03	(7,132.17)	258,108.03	177,037.44
45660LCN7	4,057,429.37	-	4,057,429.37	3,913,813.54	(143,615.83)	3,913,813.54	3,689,459.26
45660LKW8	21,908,347.51	-	21,908,347.51	21,298,027.60	(610,319.91)	21,298,027.60	13,584,806.77

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45660N2J3	\$ 2,220,485.94	\$ -	\$ 2,220,485.94	\$ 2,021,428.12	\$ (199,057.82)	\$ 2,021,428.12	\$ 1,969,493.75
45660N2Y0	1,017,882.52	-	1,017,882.52	1,001,489.22	(16,393.30)	1,001,489.22	793,003.49
45660N5H4	4,324,034.48	-	4,324,034.48	4,269,797.16	(54,237.32)	4,269,797.16	3,196,502.02
45660NQ24	1,970,446.46	-	1,970,446.46	1,968,799.95	(1,646.51)	1,968,799.95	1,795,440.64
45660NS30	1,157,717.89	-	1,157,717.89	1,150,501.82	(7,216.07)	1,150,501.82	896,223.95
45661EAA2	235,697.52	-	235,697.52	226,316.19	(9,381.33)	226,316.19	214,425.81
466247XE8	5,390,729.34	-	5,390,729.34	5,333,873.02	(56,856.32)	5,333,873.02	3,378,889.69
525221AJ6	2,261,175.96	-	2,261,175.96	2,216,676.56	(44,499.40)	2,216,676.56	1,517,007.01
525221GM3	2,732,081.65	-	2,732,081.65	2,649,357.67	(82,723.98)	2,649,357.67	1,619,667.37
525221HA8	20,207,345.18	-	20,207,345.18	19,668,821.93	(538,523.25)	19,668,821.93	10,939,984.17
52524VAG4	11,062,404.37	-	11,062,404.37	10,838,351.72	(224,052.65)	10,838,351.72	7,050,647.53
52524YAF0	9,665,927.77	-	9,665,927.77	9,379,652.95	(286,274.82)	9,379,652.95	6,147,462.85
55027AAR1	9,295,635.13	-	9,295,635.13	9,213,079.35	(82,555.78)	9,213,079.35	6,032,918.95
55027BAA6	13,108,293.41	-	13,108,293.41	12,665,836.46	(442,456.95)	12,665,836.46	6,968,458.74
55274SAM3	906,915.51	-	906,915.51	880,480.09	(26,435.42)	880,480.09	752,034.62
576433G42	7,024,024.64	-	7,024,024.64	6,885,577.88	(138,446.76)	6,885,577.88	4,314,806.39
576433H33	3,261,825.29	-	3,261,825.29	3,174,754.27	(87,071.02)	3,174,754.27	3,133,978.43
57643LMP8	1,698,761.89	-	1,698,761.89	1,516,916.66	(181,845.23)	1,516,916.66	1,006,686.00
589929N38	618,843.60	-	618,843.60	607,180.29	(11,663.31)	607,180.29	583,261.22
589929X29	3,890,489.13	-	3,890,489.13	3,887,953.67	(2,535.46)	3,887,953.67	3,359,229.48
59020UAA3	154,092.84	-	154,092.84	152,882.12	(1,210.72)	152,882.12	147,716.07
59020UAC9	805,983.42	-	805,983.42	803,847.98	(2,135.44)	803,847.98	729,547.23
59020UNZ4	1,413,542.51	-	1,413,542.51	1,384,820.01	(28,722.50)	1,384,820.01	1,305,590.00
61749LAN1	495,108.38	-	495,108.38	426,403.81	(68,704.57)	426,403.81	483,109.45
617526AE8	298,458.27	-	298,458.27	247,896.75	(50,561.52)	247,896.75	201,593.54
61913PAA0	11,417,672.54	-	11,417,672.54	10,888,133.59	(529,538.95)	10,888,133.59	9,819,940.36
61915RBB1	6,273,000.31	-	6,273,000.31	6,124,189.76	(148,810.55)	6,124,189.76	3,779,577.22
638728AC9	2,174,025.70	-	2,174,025.70	2,120,248.36	(53,777.34)	2,120,248.36	1,283,453.97
64352VEG2	53,328.05	-	53,328.05	41,302.27	(12,025.78)	41,302.27	34,820.40
66987XBV6	16,520.30	-	16,520.30	16,470.43	(49.87)	16,470.43	11,703.64
68383NCU5	7,282,554.24	-	7,282,554.24	7,235,682.42	(46,871.82)	7,235,682.42	5,207,209.31
73316PJD3	20,976.16	-	20,976.16	19,251.21	(1,724.95)	19,251.21	20,415.57
74922AAA5	13,117,398.44	-	13,117,398.44	13,117,398.44	-	13,117,398.44	7,547,875.59
75114GAC3	17,258,298.59	-	17,258,298.59	16,957,780.52	(300,518.07)	16,957,780.52	10,592,845.95
75114HAD9	15,985,299.98	-	15,985,299.98	15,385,859.62	(599,440.36)	15,385,859.62	9,711,227.61
75114HAK3	5,111,412.15	-	5,111,412.15	4,881,961.31	(229,450.84)	4,881,961.31	1,486,628.18
760985U33	509,393.37	-	509,393.37	509,070.17	(323.20)	509,070.17	401,596.46
76110GE23	5,017,971.92	-	5,017,971.92	4,955,217.15	(62,754.77)	4,955,217.15	4,576,649.54
76110GG62	5,026,755.12	-	5,026,755.12	4,991,211.22	(35,543.90)	4,991,211.22	4,874,911.35
76110GV40	2,783,024.62	-	2,783,024.62	2,642,100.56	(140,924.06)	2,642,100.56	2,621,644.63
76110GZQ7	6,790,133.51	-	6,790,133.51	6,546,910.11	(243,223.40)	6,546,910.11	5,967,525.57
761118KU1	6,008,078.81	-	6,008,078.81	5,885,056.06	(123,022.75)	5,885,056.06	3,864,201.42
761118NN4	8,315,435.99	-	8,315,435.99	8,159,140.66	(156,295.33)	8,159,140.66	5,395,099.87
761118RM2	16,560,034.61	-	16,560,034.61	16,205,072.57	(354,962.04)	16,205,072.57	10,347,725.81
77277LAF4	40,976,607.92	-	40,976,607.92	39,517,587.12	(1,459,020.80)	39,517,587.12	25,106,760.00
77277LAH0	2,035,845.16	-	2,035,845.16	1,964,959.14	(70,886.02)	1,964,959.14	2,426,111.99
77277LAJ6	28,822,879.15	-	28,822,879.15	27,814,860.58	(1,008,018.57)	27,814,860.58	15,798,887.97
79548KXQ6	1,495,470.74	-	1,495,470.74	1,490,425.94	(5,044.80)	1,490,425.94	1,318,982.77
805564RM5	3,431,895.26	-	3,431,895.26	2,858,398.98	(573,496.28)	2,858,398.98	2,577,847.11
85554NAG5	1,149,005.80	-	1,149,005.80	1,074,369.95	(74,635.85)	1,074,369.95	1,112,280.44
8635722A0	213,401.28	-	213,401.28	183,019.29	(30,381.99)	183,019.29	184,712.67
863579CB2	4,505,670.30	-	4,505,670.30	4,010,269.07	(495,401.23)	4,010,269.07	4,491,455.53
86358HHX0	934,544.89	-	934,544.89	881,801.84	(52,743.05)	881,801.84	766,260.98
86358R3Q8	1,109,716.83	-	1,109,716.83	1,086,821.24	(22,895.59)	1,086,821.24	1,105,869.67
86358RQ83	140,984.59	-	140,984.59	139,518.81	(1,465.78)	139,518.81	114,478.24
86359AEH2	22,878.66	-	22,878.66	15,088.67	(7,789.99)	15,088.67	17,036.99
86359BKB6	901,519.44	-	901,519.44	890,541.79	(10,977.65)	890,541.79	882,377.13
86359BLB5	1,236,421.78	-	1,236,421.78	1,214,880.93	(21,540.85)	1,214,880.93	1,047,933.98
86359BPM7	1,697,008.90	-	1,697,008.90	1,677,712.85	(19,296.05)	1,677,712.85	1,471,420.81
86359DDB0	1,720,052.55	-	1,720,052.55	1,557,773.74	(162,278.81)	1,557,773.74	1,008,171.00
86359DUL9	182,619.56	-	182,619.56	177,929.38	(4,690.18)	177,929.38	130,899.00
86359LRW1	19,283,246.92	-	19,283,246.92	18,854,133.13	(429,113.79)	18,854,133.13	12,078,962.49
86359LSM2	1,229,392.32	-	1,229,392.32	1,221,421.18	(7,971.14)	1,221,421.18	797,783.92
86360JAA9	10,678,598.80	-	10,678,598.80	10,110,663.03	(567,935.77)	10,110,663.03	5,665,225.53
86360JAE1	8,083,947.71	-	8,083,947.71	7,968,904.60	(115,043.11)	7,968,904.60	5,199,107.01
86360UAF3	3,679,934.99	-	3,679,934.99	3,657,014.40	(22,920.59)	3,657,014.40	2,342,230.10
86361HAA2	11,498,036.76	-	11,498,036.76	11,228,014.28	(270,022.48)	11,228,014.28	7,105,230.74
86361HAB0	7,245,471.81	-	7,245,471.81	6,677,265.79	(568,206.02)	6,677,265.79	6,376,092.75
86363DAA9	8,341,915.82	-	8,341,915.82	7,940,221.38	(401,694.44)	7,940,221.38	5,860,750.26
885220FS7	6,795,813.69	-	6,795,813.69	6,700,333.14	(95,480.55)	6,700,333.14	5,924,957.27
929227QB5	216,049.73	-	216,049.73	197,161.22	(18,888.51)	197,161.22	205,696.07
92922F4M7	4,304,379.27	-	4,304,379.27	4,200,000.14	(104,379.13)	4,200,000.14	3,057,226.29

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
92922F5T1	\$ 7,185,795.39	\$ -	\$ 7,185,795.39	\$ 7,025,768.14	\$ (160,027.25)	\$ 7,025,768.14	\$ 5,003,926.25
92922F7Q5	8,971,978.46	-	8,971,978.46	8,646,636.70	(325,341.76)	8,646,636.70	6,268,400.14
92922FB72	1,174,068.37	-	1,174,068.37	1,155,765.56	(18,302.81)	1,155,765.56	850,774.90
92922FJ25	6,121,694.09	-	6,121,694.09	6,046,585.33	(75,108.76)	6,046,585.33	4,353,868.94
92922FNW4	1,192,216.02	-	1,192,216.02	1,176,012.07	(16,203.95)	1,176,012.07	1,321,844.90
92922FTJ7	1,233,564.94	-	1,233,564.94	1,210,352.93	(23,212.01)	1,210,352.93	974,061.94
92922FWU8	3,540,323.48	-	3,540,323.48	3,390,238.86	(150,084.62)	3,390,238.86	2,849,678.72
92922FZF8	8,125,751.26	-	8,125,751.26	7,801,971.37	(323,779.89)	7,801,971.37	6,075,249.66
92925CBB7	4,188,635.02	-	4,188,635.02	4,096,642.85	(91,992.17)	4,096,642.85	3,033,957.41
92925VAM2	616,737.54	-	616,737.54	597,598.02	(19,139.52)	597,598.02	548,628.09
92926SAE6	725,416.21	-	725,416.21	680,038.47	(45,377.74)	680,038.47	615,701.52
92979DAA3	537,331.46	-	537,331.46	523,333.07	(13,998.39)	523,333.07	437,747.24
9393365V1	1,560,697.73	-	1,560,697.73	1,549,341.13	(11,356.60)	1,549,341.13	1,431,792.71
939336KZ5	2,341,996.35	-	2,341,996.35	2,334,363.48	(7,632.87)	2,334,363.48	2,055,619.32
939336X65	11,157,951.25	-	11,157,951.25	10,874,647.01	(283,304.24)	10,874,647.01	8,432,485.02
93934FHC9	7,712,919.25	-	7,712,919.25	7,699,609.07	(13,310.18)	7,699,609.07	5,318,460.28
949810AA3	566,424.05	-	566,424.05	546,485.91	(19,938.14)	546,485.91	552,653.69
94981UAF6	131,272.34	-	131,272.34	120,555.74	(10,716.60)	120,555.74	126,792.75
984582AA4	469,929.99	-	469,929.99	457,191.65	(12,738.34)	457,191.65	447,475.99
Totals	\$ 1,090,904,993.06	\$ -	\$ 1,090,904,993.06	\$ 1,056,761,288.41	\$ (34,211,747.00)	\$ 1,056,761,288.41	\$ 754,310,837.90

The following is the impairment listing for loan-backed and structured securities for the three months ended September 30, 2011:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 355,000.00	\$ -	\$ 355,000.00	\$ 290,000.00	\$ (65,000.00)	\$ 290,000.00	\$ 285,000.00
02146QAB9	12,032,384.34	-	12,032,384.34	11,850,302.56	(182,081.78)	11,850,302.56	8,273,272.97
02146TAQ0	17,912,916.56	-	17,912,916.56	16,693,633.85	(1,219,282.71)	16,693,633.85	15,861,675.53
02147CAA1	8,190,222.89	-	8,190,222.89	7,939,110.94	(251,111.95)	7,939,110.94	6,096,652.75
02147DAB7	10,161,163.88	-	10,161,163.88	10,078,483.46	(82,680.42)	10,078,483.46	6,914,174.96
02660TJB0	20,555,478.37	-	20,555,478.37	20,347,778.08	(207,700.29)	20,347,778.08	12,585,211.89
026929AD1	8,030,886.70	-	8,030,886.70	7,394,102.16	(636,784.54)	7,394,102.16	5,256,697.03
040104QN4	3,081,243.14	-	3,081,243.14	2,932,821.41	(148,421.73)	2,932,821.41	2,211,252.01
040104RV5	2,149,830.76	-	2,149,830.76	1,896,624.45	(253,206.31)	1,896,624.45	1,179,460.79
055294AA0	2,742,261.38	-	2,742,261.38	2,733,334.33	(8,927.05)	2,733,334.33	2,124,984.49
05946XYP2	911,601.67	-	911,601.67	887,990.95	(23,610.72)	887,990.95	634,778.52
05949ALH1	2,151,644.79	-	2,151,644.79	2,136,047.25	(15,597.54)	2,136,047.25	2,013,913.79
06050HKX5	555,677.56	-	555,677.56	391,850.36	(163,827.20)	391,850.36	275,336.82
06652DAA7	6,077,835.07	-	6,077,835.07	5,757,188.52	(320,646.55)	5,757,188.52	3,826,160.28
07325VAG9	2,046,242.08	-	2,046,242.08	1,991,505.51	(54,736.57)	1,991,505.51	1,745,162.36
07384M2X9	1,361,810.63	-	1,361,810.63	1,352,743.46	(9,067.17)	1,352,743.46	1,248,649.19
07384MS60	1,104,612.98	-	1,104,612.98	1,101,308.59	(3,304.39)	1,101,308.59	1,059,508.44
073854AB7	12,695,390.34	-	12,695,390.34	11,906,518.33	(788,872.01)	11,906,518.33	8,147,292.87
073879PA0	1,573,350.01	-	1,573,350.01	1,479,316.14	(94,033.87)	1,479,316.14	938,382.90
073879Z92	9,514,139.04	-	9,514,139.04	8,989,749.85	(524,389.19)	8,989,749.85	4,663,130.93
07387AFX8	457,361.06	-	457,361.06	433,935.98	(23,425.08)	433,935.98	441,839.32
07401LAA1	12,276,860.81	-	12,276,860.81	12,136,177.26	(140,683.55)	12,136,177.26	8,418,287.41
07401LAQ6	2,821,485.52	-	2,821,485.52	2,760,350.78	(61,134.74)	2,760,350.78	2,161,391.82
078446AB7	106,000.00	-	106,000.00	90,796.00	(15,204.00)	90,796.00	96,000.00
1248MGAJ3	70,790.89	-	70,790.89	66,267.71	(4,523.18)	66,267.71	49,228.91
12498NAB9	728,683.92	-	728,683.92	710,315.56	(18,368.36)	710,315.56	679,973.64
126670KN7	1,732,271.79	-	1,732,271.79	1,660,075.67	(72,196.12)	1,660,075.67	914,733.00
126673WB4	492,654.93	-	492,654.93	476,894.95	(15,759.98)	476,894.95	470,107.79
12667GCB7	169,287.19	-	169,287.19	164,795.22	(4,491.97)	164,795.22	122,499.65
12667GS20	11,646,736.57	-	11,646,736.57	11,089,514.67	(557,221.90)	11,089,514.67	7,317,781.72
12667GWF6	6,438,343.28	-	6,438,343.28	6,207,410.09	(230,933.19)	6,207,410.09	4,282,323.80
12667GYX5	1,032,401.67	-	1,032,401.67	798,077.21	(234,324.46)	798,077.21	961,743.25
12668BE33	12,873,661.44	-	12,873,661.44	12,655,782.02	(217,879.42)	12,655,782.02	9,029,638.43
12668BEH2	801,730.55	-	801,730.55	753,680.93	(48,049.62)	753,680.93	760,403.72
12669FW82	963,882.87	-	963,882.87	956,051.21	(7,831.66)	956,051.21	763,113.56
12669GKH3	11,070,655.27	-	11,070,655.27	10,821,345.82	(249,309.45)	10,821,345.82	8,435,950.92
12669GMS7	187,439.13	-	187,439.13	186,583.68	(855.45)	186,583.68	167,407.46
12669GRM5	2,381,686.60	-	2,381,686.60	2,337,315.68	(44,370.92)	2,337,315.68	1,664,932.90
12669GRQ6	5,867,340.96	-	5,867,340.96	5,720,021.02	(147,319.94)	5,720,021.02	5,269,585.71
12669GTV3	302,649.28	-	302,649.28	289,237.92	(13,411.36)	289,237.92	221,846.36
12669GUR0	3,154,848.17	-	3,154,848.17	3,013,751.26	(141,096.91)	3,013,751.26	2,110,912.61
14453MAB0	8,366,400.29	-	8,366,400.29	8,143,712.87	(222,687.42)	8,143,712.87	6,076,084.91
17311YAC7	2,389,577.54	-	2,389,577.54	2,365,142.09	(24,435.45)	2,365,142.09	2,003,923.25
22540VG71	144,135.24	-	144,135.24	144,006.39	(128.85)	144,006.39	142,405.44

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
22540VY55	\$ 154,848.81	\$ -	\$ 154,848.81	\$ 153,043.38	\$ (1,805.43)	\$ 153,043.38	\$ 125,379.04
22943HAD8	8,930,536.31	-	8,930,536.31	8,559,212.93	(371,323.38)	8,559,212.93	4,859,925.00
23243AAD8	910,919.35	-	910,919.35	900,594.54	(10,324.81)	900,594.54	667,968.15
23321P6A1	3,904,177.62	-	3,904,177.62	3,903,386.18	(791.44)	3,903,386.18	3,814,846.35
23332UBV5	5,006,024.34	-	5,006,024.34	4,845,487.38	(160,536.96)	4,845,487.38	3,320,926.51
23332UCM4	489,157.25	-	489,157.25	484,521.05	(4,636.20)	484,521.05	336,415.99
251508AB3	6,716,113.69	-	6,716,113.69	5,838,739.88	(877,373.81)	5,838,739.88	4,164,503.30
251510FB4	5,175,183.65	-	5,175,183.65	5,052,929.38	(122,254.27)	5,052,929.38	4,369,316.65
32113JAA3	622,764.25	-	622,764.25	606,682.49	(16,081.76)	606,682.49	386,977.37
32113JBV6	252,753.95	-	252,753.95	228,621.65	(24,132.30)	228,621.65	198,878.00
36228FC53	927,018.69	-	927,018.69	876,662.22	(50,356.47)	876,662.22	795,524.33
362290AC2	1,315,082.42	-	1,315,082.42	970,668.69	(344,413.73)	970,668.69	1,249,565.64
362480AD7	10,920,725.53	-	10,920,725.53	10,190,750.28	(729,975.25)	10,190,750.28	6,771,946.36
36298XAB8	19,540,101.49	-	19,540,101.49	19,356,084.89	(184,016.60)	19,356,084.89	18,688,392.80
39538RBB4	10,621,455.73	-	10,621,455.73	10,357,148.10	(264,307.63)	10,357,148.10	6,833,433.32
39539GAA0	3,745,859.77	-	3,745,859.77	3,693,394.38	(52,465.39)	3,693,394.38	2,762,708.79
41161PFR9	1,057,421.82	-	1,057,421.82	1,049,222.96	(8,198.86)	1,049,222.96	880,583.81
41161PHU0	6,434,985.19	-	6,434,985.19	6,321,068.34	(113,916.85)	6,321,068.34	5,082,846.18
41161PKH5	428,607.22	-	428,607.22	417,973.63	(10,633.59)	417,973.63	298,610.43
41161PLR2	10,208,554.57	-	10,208,554.57	9,931,349.39	(277,205.18)	9,931,349.39	7,369,950.14
41161PMG5	12,686,469.66	-	12,686,469.66	12,253,773.73	(432,695.93)	12,253,773.73	9,207,070.40
41161PSK0	4,072,927.86	-	4,072,927.86	4,054,365.85	(18,562.01)	4,054,365.85	3,112,909.78
41164YAB7	10,228,700.53	-	10,228,700.53	10,108,870.61	(119,829.92)	10,108,870.61	6,763,548.54
43739EAP2	16,762,173.85	-	16,762,173.85	16,754,383.79	(7,790.06)	16,754,383.79	11,547,347.43
43739EBJ5	7,818,708.26	-	7,818,708.26	7,708,379.95	(110,328.31)	7,708,379.95	5,582,406.29
43739EBS5	7,495,471.91	-	7,495,471.91	7,360,184.77	(135,287.14)	7,360,184.77	5,928,566.53
45071KDD3	1,228,116.77	-	1,228,116.77	1,170,289.65	(57,827.12)	1,170,289.65	747,163.15
45254NJV0	898,086.12	-	898,086.12	888,802.85	(9,283.27)	888,802.85	686,735.70
45254NMB0	1,011,350.40	-	1,011,350.40	990,574.51	(20,775.89)	990,574.51	819,498.77
45254NML8	1,361,465.84	-	1,361,465.84	1,349,261.53	(12,204.31)	1,349,261.53	949,172.61
45254NPA9	13,078,947.98	-	13,078,947.98	12,864,037.94	(214,910.04)	12,864,037.94	11,036,655.21
45254NPU5	4,557,944.28	-	4,557,944.28	4,491,215.04	(66,729.24)	4,491,215.04	3,435,163.55
45254TRX4	289,648.82	-	289,648.82	268,982.89	(20,665.93)	268,982.89	184,567.75
45254TSM7	3,185,175.16	-	3,185,175.16	3,178,237.32	(6,937.84)	3,178,237.32	1,802,649.77
45660LKW8	22,789,501.37	-	22,789,501.37	22,157,937.38	(631,563.99)	22,157,937.38	14,182,598.88
45660LW96	2,821,627.31	-	2,821,627.31	2,302,696.11	(518,931.20)	2,302,696.11	1,645,942.74
45660LYW3	2,839,935.89	-	2,839,935.89	2,675,191.85	(164,744.04)	2,675,191.85	1,808,335.06
45660N5H4	2,548,236.34	-	2,548,236.34	2,494,498.56	(53,737.78)	2,494,498.56	2,192,321.21
45660NQ24	2,006,313.51	-	2,006,313.51	1,977,589.40	(28,724.11)	1,977,589.40	1,854,995.67
466247XE8	5,663,043.17	-	5,663,043.17	5,468,140.48	(194,902.69)	5,468,140.48	3,478,749.59
46627MBQ9	10,520,931.04	-	10,520,931.04	10,382,860.24	(138,070.80)	10,382,860.24	7,343,157.84
525221AJ6	2,364,660.32	-	2,364,660.32	2,303,545.55	(61,114.77)	2,303,545.55	1,462,798.21
525221CD7	199,143.11	-	199,143.11	140,273.81	(58,869.30)	140,273.81	73,244.54
525221EN3	7,615,159.04	-	7,615,159.04	6,810,706.64	(804,452.40)	6,810,706.64	5,780,485.70
525221GB7	21,306.89	-	21,306.89	19,942.84	(1,364.05)	19,942.84	17,621.17
525221GM3	2,893,816.76	-	2,893,816.76	2,770,940.92	(122,875.84)	2,770,940.92	1,745,499.88
525221HA8	20,311,816.98	-	20,311,816.98	20,218,739.56	(93,077.42)	20,218,739.56	12,212,406.28
52524YAF0	10,165,923.50	-	10,165,923.50	9,936,997.51	(228,925.99)	9,936,997.51	6,413,146.30
55027AAR1	9,939,205.47	-	9,939,205.47	9,460,015.29	(479,190.18)	9,460,015.29	6,284,640.75
55027AAU4	5,014,593.61	-	5,014,593.61	4,727,808.64	(286,784.97)	4,727,808.64	3,669,394.89
55027BAA6	13,695,897.92	-	13,695,897.92	13,402,622.86	(293,275.06)	13,402,622.86	7,785,098.29
55274SAM3	958,260.89	-	958,260.89	936,771.00	(21,489.89)	936,771.00	800,319.19
576433WZ5	2,173,624.29	-	2,173,624.29	1,797,224.58	(376,399.71)	1,797,224.58	2,111,096.68
576438AA3	2,986,331.41	-	2,986,331.41	2,904,333.95	(81,997.46)	2,904,333.95	2,292,462.90
57643LMP8	1,768,401.20	-	1,768,401.20	1,665,768.72	(102,632.48)	1,665,768.72	1,020,858.00
59020UAC9	831,369.52	-	831,369.52	829,854.74	(1,514.78)	829,854.74	760,663.54
59020UNZ4	1,477,073.86	-	1,477,073.86	1,413,229.74	(63,844.12)	1,413,229.74	1,335,154.95
59020UUJ2	3,525,203.43	-	3,525,203.43	3,498,541.17	(26,662.26)	3,498,541.17	3,179,606.06
59020UW43	1,146,354.75	-	1,146,354.75	940,451.86	(205,902.89)	940,451.86	1,063,971.44
59024WAB3	1,377,874.01	-	1,377,874.01	1,249,457.53	(128,416.48)	1,249,457.53	1,355,587.88
617526AE8	308,320.76	-	308,320.76	290,839.48	(17,481.28)	290,839.48	210,114.91
61915RBB1	6,505,525.22	-	6,505,525.22	6,368,210.54	(137,314.68)	6,368,210.54	4,034,515.97
63543XAH2	79,020.00	-	79,020.00	-	(79,020.00)	-	100,000.00
65106FAG7	222,807.35	-	222,807.35	173,737.96	(49,069.39)	173,737.96	644,988.50
65535VRK6	1,595,098.54	-	1,595,098.54	1,461,692.09	(133,406.45)	1,461,692.09	1,128,243.27
65535VUS5	1,967,066.10	-	1,967,066.10	1,625,756.58	(341,309.52)	1,625,756.58	1,842,954.87
68383NCU5	7,569,311.48	-	7,569,311.48	7,458,109.86	(111,201.62)	7,458,109.86	5,530,688.63
68383NDT7	7,580,254.71	-	7,580,254.71	7,537,982.61	(42,272.10)	7,537,982.61	5,517,435.79
69121PDX8	733,994.81	-	733,994.81	714,780.11	(19,214.70)	714,780.11	649,477.08
73316PJD3	24,652.84	-	24,652.84	21,588.24	(3,064.60)	21,588.24	20,920.18
75114HAK3	5,468,316.97	-	5,468,316.97	4,947,087.27	(521,229.70)	4,947,087.27	1,860,199.38
76110GV40	2,855,552.11	-	2,855,552.11	2,848,957.13	(6,594.98)	2,848,957.13	2,680,673.09

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
76110GZQ7	\$ 6,924,079.62	\$ -	\$ 6,924,079.62	\$ 6,913,692.91	\$ (10,386.71)	\$ 6,913,692.91	\$ 6,022,270.89
761118KU1	6,185,182.79	-	6,185,182.79	6,149,135.41	(36,047.38)	6,149,135.41	4,149,854.65
79548KXQ6	1,530,147.05	-	1,530,147.05	1,509,276.36	(20,870.69)	1,509,276.36	1,330,711.68
805564RM5	3,783,853.77	-	3,783,853.77	3,390,656.22	(393,197.55)	3,390,656.22	2,589,301.99
81744FDK0	2,178,301.21	-	2,178,301.21	2,151,684.02	(26,617.19)	2,151,684.02	1,761,382.63
8635722A0	233,595.24	-	233,595.24	215,504.87	(18,090.37)	215,504.87	186,216.34
863579DV7	416,883.90	-	416,883.90	285,759.07	(131,124.83)	285,759.07	308,009.45
863579KG2	2,973,646.71	-	2,973,646.71	2,942,098.75	(31,547.96)	2,942,098.75	2,664,997.41
86358RP68	437,220.89	-	437,220.89	422,474.79	(14,746.10)	422,474.79	398,856.58
86359ACC5	531,978.21	-	531,978.21	353,127.15	(178,851.06)	353,127.15	488,282.15
86359ADN0	741,134.04	-	741,134.04	326,463.46	(414,670.58)	326,463.46	682,038.16
86359B7K1	138,037.60	-	138,037.60	126,862.75	(11,174.85)	126,862.75	137,039.83
86359BKB6	916,470.25	-	916,470.25	904,786.02	(11,684.23)	904,786.02	907,098.07
86359DUL9	194,987.88	-	194,987.88	188,934.70	(6,053.18)	188,934.70	143,104.84
86359DUR6	17,332,821.60	-	17,332,821.60	17,133,310.77	(199,510.83)	17,133,310.77	13,000,522.13
86359LRW1	20,040,509.75	-	20,040,509.75	19,854,529.41	(185,980.34)	19,854,529.41	12,605,141.57
86360JAE1	8,289,646.58	-	8,289,646.58	8,220,957.52	(68,689.06)	8,220,957.52	5,360,309.37
86360JAN1	3,353,911.80	-	3,353,911.80	2,834,798.76	(519,113.04)	2,834,798.76	1,837,894.65
86360KAF5	32,116,770.69	-	32,116,770.69	31,735,747.36	(381,023.33)	31,735,747.36	20,359,228.06
86361HAA2	12,017,398.43	-	12,017,398.43	11,901,691.77	(115,706.66)	11,901,691.77	7,914,933.46
86361HAB0	7,654,446.10	-	7,654,446.10	7,553,360.48	(101,085.62)	7,553,360.48	7,548,110.13
86363DAA9	8,704,237.99	-	8,704,237.99	8,584,990.62	(119,247.37)	8,584,990.62	6,725,522.53
88157QAL2	937,251.38	-	937,251.38	703,789.33	(233,462.05)	703,789.33	1,223,464.27
885220FS7	7,123,770.34	-	7,123,770.34	7,030,548.39	(93,221.95)	7,030,548.39	6,510,377.19
92922F5T1	7,370,799.85	-	7,370,799.85	7,282,989.99	(87,809.86)	7,282,989.99	5,963,213.98
92922FB72	1,210,035.69	-	1,210,035.69	1,197,200.58	(12,835.11)	1,197,200.58	882,889.24
92922FJ25	6,254,294.53	-	6,254,294.53	6,189,443.91	(64,850.62)	6,189,443.91	4,867,792.79
92922FZD3	13,171,136.59	-	13,171,136.59	12,466,741.22	(704,395.37)	12,466,741.22	13,117,969.62
92922FZF8	8,267,915.38	-	8,267,915.38	8,244,339.94	(23,575.44)	8,244,339.94	6,853,052.73
92925CBB7	4,280,518.12	-	4,280,518.12	4,227,773.72	(52,744.40)	4,227,773.72	3,348,795.48
92977YAY7	2,465,934.87	-	2,465,934.87	2,167,246.19	(298,688.68)	2,167,246.19	467,915.97
92979DAA3	592,212.28	-	592,212.28	531,258.61	(60,953.67)	531,258.61	449,461.21
9393365V1	1,661,860.00	-	1,661,860.00	1,609,085.32	(52,774.68)	1,609,085.32	1,403,053.51
93934FHC9	8,006,057.92	-	8,006,057.92	7,914,350.10	(91,707.82)	7,914,350.10	5,510,082.35
Totals	\$ 762,320,631.78	\$ -	\$ 762,320,631.78	\$ 738,510,047.63	\$ (23,810,584.15)	\$ 738,510,047.63	\$ 546,494,231.96

The following is the impairment listing for loan-backed and structured securities for the three months ended June 30, 2011:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 370,000.00	\$ -	\$ 370,000.00	\$ 355,000.00	\$ (15,000.00)	\$ 355,000.00	\$ 355,000.00
004375CT6	7,403,325.91	-	7,403,325.91	7,147,252.56	(256,073.35)	7,147,252.56	5,694,371.62
00442GAD2	159,625.51	-	159,625.51	154,480.10	(5,145.41)	154,480.10	160,913.36
00442JAE4	5,413,645.90	-	5,413,645.90	4,927,546.20	(486,099.70)	4,927,546.20	3,887,634.80
007034AQ4	5,320,602.41	-	5,320,602.41	5,232,343.88	(88,258.53)	5,232,343.88	4,278,416.99
007037BK9	238,074.57	-	238,074.57	232,349.28	(5,725.29)	232,349.28	156,567.31
02146QAB9	13,263,679.03	-	13,263,679.03	12,405,812.00	(857,867.03)	12,405,812.00	9,354,207.06
02146YAD8	17,604,278.99	-	17,604,278.99	16,869,197.39	(735,081.60)	16,869,197.39	12,873,145.97
02147CAA1	8,897,979.14	-	8,897,979.14	8,460,893.11	(437,086.03)	8,460,893.11	6,712,922.27
02147DAB7	11,004,615.15	-	11,004,615.15	10,535,593.48	(469,021.67)	10,535,593.48	7,666,098.70
02660TGN7	8,220,080.69	-	8,220,080.69	8,000,792.06	(219,288.63)	8,000,792.06	5,341,882.20
02660TGS6	7,553,437.85	-	7,553,437.85	6,528,085.41	(1,025,352.44)	6,528,085.41	4,919,615.29
02660TJB0	21,940,746.02	-	21,940,746.02	20,981,937.25	(958,808.77)	20,981,937.25	14,187,594.02
02660WAC0	16,364,974.60	-	16,364,974.60	16,003,512.77	(361,461.83)	16,003,512.77	11,231,013.93
02660XAD6	10,753,042.52	-	10,753,042.52	10,499,231.10	(253,811.42)	10,499,231.10	8,340,004.28
026929AA7	8,990,381.35	-	8,990,381.35	8,654,511.98	(335,869.37)	8,654,511.98	8,883,436.91
026929AD1	8,710,369.61	-	8,710,369.61	8,406,222.21	(304,147.40)	8,406,222.21	5,877,597.71
040104QN4	3,493,460.23	-	3,493,460.23	3,266,039.39	(227,420.84)	3,266,039.39	2,749,129.20
040104TF8	88,076.11	-	88,076.11	85,556.47	(2,519.64)	85,556.47	62,760.85
040104TG6	977,591.28	-	977,591.28	950,814.78	(26,776.50)	950,814.78	820,433.37
04012XAC9	253,511.81	-	253,511.81	238,019.03	(15,492.78)	238,019.03	175,845.08
055294AA0	2,975,082.10	-	2,975,082.10	2,897,726.71	(77,355.39)	2,897,726.71	2,397,151.63
05535DAN4	4,426,081.37	-	4,426,081.37	2,957,964.95	(1,468,116.42)	2,957,964.95	2,707,952.24
05535DCF9	8,177,898.68	-	8,177,898.68	7,887,868.43	(290,030.25)	7,887,868.43	4,796,232.12
05946XYP2	965,465.31	-	965,465.31	954,163.65	(11,301.66)	954,163.65	713,045.13
05949ALH1	1,959,762.10	-	1,959,762.10	1,945,434.78	(14,327.32)	1,945,434.78	1,914,105.59
05950DAA8	10,315,389.14	-	10,315,389.14	10,136,225.11	(179,164.03)	10,136,225.11	8,457,262.89
06050HKX5	591,031.77	-	591,031.77	562,401.51	(28,630.26)	562,401.51	291,127.17
073879Z92	9,741,810.63	-	9,741,810.63	9,295,040.70	(446,769.93)	9,295,040.70	4,612,197.71

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
07389VAA5	\$ 1,671,470.58	\$ -	\$ 1,671,470.58	\$ 1,561,202.75	\$ (110,267.83)	\$ 1,561,202.75	\$ 1,504,771.87
07400XAB4	2,780,642.45	-	2,780,642.45	2,666,904.78	(113,737.67)	2,666,904.78	1,842,237.26
07401LAA1	13,341,277.48	-	13,341,277.48	12,685,561.38	(655,716.10)	12,685,561.38	9,725,389.47
07401LAQ6	3,052,505.86	-	3,052,505.86	2,941,553.78	(110,952.08)	2,941,553.78	2,412,194.27
07820QAY1	13,083,773.80	-	13,083,773.80	12,632,872.48	(450,901.32)	12,632,872.48	9,775,561.89
07820QBL8	2,720,336.17	-	2,720,336.17	2,618,897.35	(101,438.82)	2,618,897.35	2,018,590.75
1248M3AB9	4,951,130.55	-	4,951,130.55	4,861,326.62	(89,803.93)	4,861,326.62	4,664,240.59
1248MGAJ3	78,372.25	-	78,372.25	72,737.09	(5,635.16)	72,737.09	48,377.62
1248RHAD9	4,780,920.84	-	4,780,920.84	4,175,285.93	(605,634.91)	4,175,285.93	2,877,308.61
12498NAB9	789,064.07	-	789,064.07	766,456.38	(22,607.69)	766,456.38	740,423.81
126670KN7	1,831,846.50	-	1,831,846.50	1,717,010.16	(114,836.34)	1,717,010.16	1,037,118.00
126673WB4	560,083.26	-	560,083.26	544,691.82	(15,391.44)	544,691.82	519,479.47
12667FUL7	189,967.87	-	189,967.87	141,385.58	(48,582.29)	141,385.58	785,597.22
12667GCB7	181,815.58	-	181,815.58	170,887.82	(10,927.76)	170,887.82	135,927.44
12667GR62	8,415,537.52	-	8,415,537.52	8,355,026.41	(60,511.11)	8,355,026.41	7,028,670.89
12667GS20	12,283,980.56	-	12,283,980.56	11,937,876.96	(346,103.60)	11,937,876.96	8,059,668.23
12667GWF6	7,061,095.55	-	7,061,095.55	6,602,223.90	(458,871.65)	6,602,223.90	5,007,656.34
12668A4B8	12,941,158.94	-	12,941,158.94	12,119,014.73	(822,144.21)	12,119,014.73	8,944,515.20
12668ACZ6	3,423,890.67	-	3,423,890.67	3,297,199.39	(126,691.28)	3,297,199.39	2,465,241.99
12668AEV3	10,542,275.05	-	10,542,275.05	10,247,548.39	(294,726.66)	10,247,548.39	8,344,374.16
12668AGW9	2,432,368.04	-	2,432,368.04	2,035,172.05	(397,195.99)	2,035,172.05	2,335,532.17
12668BDC4	4,752,590.84	-	4,752,590.84	4,513,145.41	(239,445.43)	4,513,145.41	3,802,036.56
12668BE33	13,928,835.54	-	13,928,835.54	13,081,072.18	(847,763.36)	13,081,072.18	9,546,383.41
12669B3B6	65,409.70	-	65,409.70	35,269.47	(30,140.23)	35,269.47	48,988.83
12669FVD2	858,107.46	-	858,107.46	804,119.58	(53,987.88)	804,119.58	854,710.58
12669FW82	1,015,805.12	-	1,015,805.12	975,988.96	(39,816.16)	975,988.96	770,763.52
12669GKH3	11,817,843.84	-	11,817,843.84	11,343,160.99	(474,682.85)	11,343,160.99	9,250,248.44
12669GMS7	205,855.54	-	205,855.54	193,668.85	(12,186.69)	193,668.85	175,858.37
12669GRM5	2,635,349.19	-	2,635,349.19	2,451,227.00	(184,122.19)	2,451,227.00	2,127,705.34
12669GRQ6	6,472,125.17	-	6,472,125.17	6,054,262.33	(417,862.84)	6,054,262.33	5,782,563.12
12669GTV3	339,622.83	-	339,622.83	311,854.40	(27,768.43)	311,854.40	242,733.97
12669GUR0	3,316,493.22	-	3,316,493.22	3,189,613.15	(126,880.07)	3,189,613.15	2,328,534.88
14983CAA3	1,274,147.66	-	1,274,147.66	1,196,953.48	(77,194.18)	1,196,953.48	837,139.86
17311YAC7	2,898,818.47	-	2,898,818.47	2,491,417.26	(407,401.21)	2,491,417.26	2,326,545.71
22540VG71	122,879.34	-	122,879.34	122,460.00	(419.34)	122,460.00	121,864.87
225470B93	4,582,217.54	-	4,582,217.54	4,509,934.32	(72,283.22)	4,509,934.32	3,845,680.35
22943HAD8	10,470,446.75	-	10,470,446.75	8,957,363.82	(1,513,082.93)	8,957,363.82	7,387,020.00
23243AAD8	989,370.51	-	989,370.51	955,614.98	(33,755.53)	955,614.98	717,483.87
23245QAA7	2,071,789.83	-	2,071,789.83	1,955,492.72	(116,297.11)	1,955,492.72	1,565,153.34
23321P6A1	2,863,387.53	-	2,863,387.53	2,856,459.02	(6,928.51)	2,856,459.02	2,786,385.86
23332UUFV1	1,289,366.54	-	1,289,366.54	1,282,023.04	(7,343.50)	1,282,023.04	911,008.17
251508AB3	7,534,519.27	-	7,534,519.27	6,934,953.06	(599,566.21)	6,934,953.06	4,710,530.76
30251YAB4	7,206,825.42	-	7,206,825.42	7,150,532.74	(56,292.68)	7,150,532.74	5,424,394.15
32056CAH2	15,970,892.52	-	15,970,892.52	15,625,008.42	(345,884.10)	15,625,008.42	14,097,475.09
36185NXT2	480,300.23	-	480,300.23	342,093.29	(138,206.94)	342,093.29	360,669.96
36228FC53	1,037,017.12	-	1,037,017.12	982,991.94	(54,025.18)	982,991.94	842,138.90
362341L49	5,106,623.24	-	5,106,623.24	5,021,034.34	(85,588.90)	5,021,034.34	4,412,830.84
362341TM1	2,443,201.11	-	2,443,201.11	2,374,066.43	(69,134.68)	2,374,066.43	2,292,997.45
362480AD7	11,678,000.76	-	11,678,000.76	11,207,319.96	(470,680.80)	11,207,319.96	7,858,713.01
39538RAB5	9,839,578.13	-	9,839,578.13	9,740,017.04	(99,561.09)	9,740,017.04	6,825,326.72
39538RBB4	11,118,644.03	-	11,118,644.03	10,867,077.20	(251,566.83)	10,867,077.20	8,084,521.46
39538WFH6	9,253,858.85	-	9,253,858.85	9,008,051.77	(245,807.08)	9,008,051.77	6,507,935.92
39538WHF8	25,147,502.44	-	25,147,502.44	24,863,316.46	(284,185.98)	24,863,316.46	18,158,716.82
39539GAA0	4,142,380.99	-	4,142,380.99	3,858,924.02	(283,456.97)	3,858,924.02	3,093,463.70
41161PFR9	1,089,162.17	-	1,089,162.17	1,062,736.29	(26,425.88)	1,062,736.29	964,707.20
41161PHU0	6,805,621.64	-	6,805,621.64	6,566,125.81	(239,495.83)	6,566,125.81	5,535,257.34
41161PKH5	465,705.71	-	465,705.71	447,126.11	(18,579.60)	447,126.11	331,165.28
41161PL43	15,904,690.31	-	15,904,690.31	15,427,639.04	(477,051.27)	15,427,639.04	12,519,861.74
41161PLR2	11,217,125.58	-	11,217,125.58	10,366,730.27	(850,395.31)	10,366,730.27	8,096,014.35
41161PMG5	14,212,262.03	-	14,212,262.03	13,086,899.71	(1,125,362.32)	13,086,899.71	9,903,452.27
41161PQU0	11,206,801.04	-	11,206,801.04	11,083,259.53	(123,541.51)	11,083,259.53	8,829,517.26
41161PSK0	4,155,867.99	-	4,155,867.99	4,140,078.71	(15,789.28)	4,140,078.71	3,311,704.79
41161PTN3	1,861,916.34	-	1,861,916.34	1,835,975.71	(25,940.63)	1,835,975.71	1,380,582.71
41161PWB5	5,844,745.44	-	5,844,745.44	5,799,323.66	(45,421.78)	5,799,323.66	4,123,200.14
41161PXH1	677,816.57	-	677,816.57	669,094.72	(8,721.85)	669,094.72	477,286.09
41162DAF6	8,994,069.64	-	8,994,069.64	7,961,170.02	(1,032,899.62)	7,961,170.02	7,118,547.39
41164LAB5	12,621,800.45	-	12,621,800.45	11,230,967.78	(1,390,832.67)	11,230,967.78	8,387,551.76
41164YAB7	10,726,262.52	-	10,726,262.52	10,475,360.99	(250,901.53)	10,475,360.99	7,668,382.14
43739EBJ5	8,350,734.18	-	8,350,734.18	7,950,384.41	(400,349.77)	7,950,384.41	6,251,970.02
43739EBS5	8,105,864.82	-	8,105,864.82	7,658,917.19	(446,947.63)	7,658,917.19	6,751,074.64
45254NHV2	247,136.73	-	247,136.73	233,455.99	(13,680.74)	233,455.99	209,178.13
45254NJG3	1,142,062.94	-	1,142,062.94	1,122,485.65	(19,577.29)	1,122,485.65	956,740.55

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45254NKF3	\$ 4,447,562.20	\$ -	\$ 4,447,562.20	\$ 4,407,084.59	\$ (40,477.61)	\$ 4,407,084.59	\$ 4,349,125.98
45254NML8	1,023,637.01	-	1,023,637.01	1,023,042.60	(594.41)	1,023,042.60	798,028.88
45254NPA9	13,599,192.07	-	13,599,192.07	13,231,174.95	(368,017.12)	13,231,174.95	11,211,853.18
45254NPU5	4,802,222.03	-	4,802,222.03	4,628,886.89	(173,335.14)	4,628,886.89	3,490,188.34
45254TRX4	297,840.06	-	297,840.06	293,087.16	(4,752.90)	293,087.16	207,069.94
45254TSM7	3,295,634.70	-	3,295,634.70	3,266,883.53	(28,751.17)	3,266,883.53	2,097,577.20
45257EAA2	3,879,055.62	-	3,879,055.62	3,664,344.06	(214,711.56)	3,664,344.06	3,535,358.63
45660LW96	3,085,309.15	-	3,085,309.15	2,903,399.55	(181,909.60)	2,903,399.55	1,872,549.76
45660LY94	485,927.29	-	485,927.29	307,876.96	(178,050.33)	307,876.96	183,383.48
45660LYW3	3,582,993.37	-	3,582,993.37	2,965,244.32	(617,749.05)	2,965,244.32	2,142,003.90
45660N3S2	4,168,246.96	-	4,168,246.96	4,148,358.98	(19,887.98)	4,148,358.98	3,817,083.54
45660NQ24	853,542.41	-	853,542.41	802,184.25	(51,358.16)	802,184.25	791,950.38
456612AC4	14,752,889.16	-	14,752,889.16	13,658,056.92	(1,094,832.24)	13,658,056.92	9,476,622.32
45661LAG3	4,918,903.42	-	4,918,903.42	4,767,495.48	(151,407.94)	4,767,495.48	4,036,455.12
45667WAA6	3,657,646.56	-	3,657,646.56	3,407,235.80	(250,410.76)	3,407,235.80	3,135,273.61
466247BC6	140,463.09	-	140,463.09	139,336.41	(1,126.68)	139,336.41	137,500.62
525221AJ6	2,423,202.18	-	2,423,202.18	2,408,596.80	(14,605.38)	2,408,596.80	1,681,253.43
525221EN3	10,347,206.55	-	10,347,206.55	8,058,470.44	(2,288,736.11)	8,058,470.44	6,566,646.65
525221GM3	3,131,481.61	-	3,131,481.61	2,964,863.90	(166,617.71)	2,964,863.90	1,891,920.84
52524YAF0	10,705,885.46	-	10,705,885.46	10,608,844.00	(97,041.46)	10,608,844.00	7,272,729.33
550279AA1	4,183,735.11	-	4,183,735.11	4,132,667.48	(51,067.63)	4,132,667.48	3,211,786.83
55027AAR1	10,402,608.17	-	10,402,608.17	10,175,024.99	(227,583.18)	10,175,024.99	7,001,283.12
55027AAU4	5,421,668.41	-	5,421,668.41	5,198,866.80	(222,801.61)	5,198,866.80	3,379,511.88
55027BAA6	14,422,565.14	-	14,422,565.14	14,012,496.58	(410,068.56)	14,012,496.58	9,444,008.61
576433G42	7,620,937.36	-	7,620,937.36	7,346,531.01	(274,406.35)	7,346,531.01	5,368,399.14
576433H33	3,914,653.00	-	3,914,653.00	3,779,758.84	(134,894.16)	3,779,758.84	3,725,126.07
576438AA3	3,170,157.17	-	3,170,157.17	3,154,671.70	(15,485.47)	3,154,671.70	2,688,395.08
57643LMP8	1,818,151.86	-	1,818,151.86	1,734,492.66	(83,659.20)	1,734,492.66	1,093,308.00
617463AA2	18,190.33	-	18,190.33	17,901.18	(289.15)	17,901.18	14,579.46
61750FAE0	669,494.38	-	669,494.38	629,661.33	(39,833.05)	629,661.33	571,359.46
617526AE8	314,327.91	-	314,327.91	300,966.95	(13,360.96)	300,966.95	228,521.15
63543XAH2	106,600.00	-	106,600.00	79,020.00	(27,580.00)	79,020.00	100,000.00
64352VNY3	2,963,790.95	-	2,963,790.95	2,721,526.68	(242,264.27)	2,721,526.68	1,402,020.00
65535VRK6	1,114,388.91	-	1,114,388.91	1,072,060.59	(42,328.32)	1,072,060.59	1,055,783.60
65535VUS5	2,153,982.46	-	2,153,982.46	1,841,133.77	(312,848.69)	1,841,133.77	1,904,936.36
66987XBV6	18,653.88	-	18,653.88	18,052.56	(601.32)	18,052.56	13,570.85
74922AAA5	13,943,565.17	-	13,943,565.17	13,688,265.61	(255,299.56)	13,688,265.61	8,514,255.33
75114GAC3	18,526,178.13	-	18,526,178.13	18,199,499.83	(326,678.30)	18,199,499.83	12,887,711.47
75114HAD9	17,431,974.80	-	17,431,974.80	16,987,120.85	(444,853.95)	16,987,120.85	13,037,178.33
75114NAA2	8,422,001.05	-	8,422,001.05	8,389,607.15	(32,393.90)	8,389,607.15	6,867,667.02
75114NAB0	3,022,759.65	-	3,022,759.65	3,017,026.02	(5,733.63)	3,017,026.02	2,735,828.82
75970NAG2	1,672,850.85	-	1,672,850.85	1,580,319.99	(92,530.86)	1,580,319.99	1,316,403.38
759950EL8	4,369,242.19	-	4,369,242.19	4,171,673.19	(197,569.00)	4,171,673.19	4,268,234.94
760985U33	619,524.33	-	619,524.33	508,808.67	(110,715.66)	508,808.67	301,850.44
76110GE23	5,194,269.38	-	5,194,269.38	5,130,427.40	(63,841.98)	5,130,427.40	4,358,588.14
76110GTL5	932,001.08	-	932,001.08	762,733.61	(169,267.47)	762,733.61	850,961.76
76110GV40	3,116,460.84	-	3,116,460.84	2,955,452.79	(161,008.05)	2,955,452.79	2,784,815.56
76110GVT5	2,221,320.41	-	2,221,320.41	2,053,290.88	(168,029.53)	2,053,290.88	2,154,244.36
76110GWG2	1,628,169.23	-	1,628,169.23	1,497,239.37	(130,929.86)	1,497,239.37	1,525,109.56
76110GZQ7	7,320,464.50	-	7,320,464.50	7,260,673.39	(59,791.11)	7,260,673.39	6,305,260.05
76110GZR5	2,460,530.70	-	2,460,530.70	2,020,311.93	(440,218.77)	2,020,311.93	2,082,824.91
761118NN4	8,970,194.40	-	8,970,194.40	8,854,040.82	(116,153.58)	8,854,040.82	6,065,811.19
761118RJ9	388,592.06	-	388,592.06	367,492.35	(21,099.71)	367,492.35	229,312.93
761118RM2	18,435,535.65	-	18,435,535.65	17,706,883.39	(728,652.26)	17,706,883.39	12,966,353.51
79549ASN0	188,855.67	-	188,855.67	96,628.07	(92,227.60)	96,628.07	156,004.99
80557BAC8	7,073,934.57	-	7,073,934.57	6,658,521.05	(415,413.52)	6,658,521.05	5,994,708.50
81378EAA1	2,835,965.73	-	2,835,965.73	2,729,570.58	(106,395.15)	2,729,570.58	1,991,329.48
81379EAA0	393,146.04	-	393,146.04	382,391.58	(10,754.46)	382,391.58	347,864.03
83613GAA7	2,424,305.21	-	2,424,305.21	2,289,435.53	(134,869.68)	2,289,435.53	1,882,122.00
84752CAE7	1,577,215.87	-	1,577,215.87	1,521,215.46	(56,000.41)	1,521,215.46	751,364.85
8635722A0	246,838.88	-	246,838.88	235,041.39	(11,797.49)	235,041.39	214,420.07
863579DV7	471,733.98	-	471,733.98	468,843.11	(2,890.87)	468,843.11	367,893.29
863579KG2	3,245,100.31	-	3,245,100.31	3,099,874.57	(145,225.74)	3,099,874.57	2,990,920.99
863579YR3	6,981,204.72	-	6,981,204.72	6,615,297.71	(365,907.01)	6,615,297.71	6,138,939.08
86358HHX0	1,001,108.45	-	1,001,108.45	987,386.44	(13,722.01)	987,386.44	807,677.73
86358RA23	4,524,533.79	-	4,524,533.79	4,465,507.90	(59,025.89)	4,465,507.90	3,907,151.38
86358RL88	226,189.24	-	226,189.24	58,057.55	(168,131.69)	58,057.55	122,236.18
86358RP68	593,608.65	-	593,608.65	591,449.14	(2,159.51)	591,449.14	579,356.43
86358RUQ8	88,513.41	-	88,513.41	25,607.70	(62,905.71)	25,607.70	88,499.05
86359ACC5	754,969.66	-	754,969.66	541,626.76	(213,342.90)	541,626.76	511,408.43
86359BKB6	972,851.53	-	972,851.53	923,717.36	(49,134.17)	923,717.36	980,064.82
86359BLB5	1,252,854.82	-	1,252,854.82	1,239,560.72	(13,294.10)	1,239,560.72	1,222,569.46

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
86359DUR6	\$ 19,298,016.21	\$ -	\$ 19,298,016.21	\$ 17,954,125.14	\$ (1,343,891.07)	\$ 17,954,125.14	\$ 14,380,687.56
86359LRW1	21,245,312.20	-	21,245,312.20	20,534,345.47	(710,966.73)	20,534,345.47	15,097,985.41
86359LSM2	1,399,891.35	-	1,399,891.35	1,327,165.09	(72,726.26)	1,327,165.09	1,037,905.37
86360JAA9	11,391,844.75	-	11,391,844.75	10,989,386.04	(402,458.71)	10,989,386.04	6,815,506.29
86360JAE1	8,836,521.87	-	8,836,521.87	8,442,723.34	(393,798.53)	8,442,723.34	5,991,741.22
86360KAF5	34,500,571.37	-	34,500,571.37	32,904,063.84	(1,596,507.53)	32,904,063.84	22,382,347.38
86360UAF3	4,237,400.71	-	4,237,400.71	3,887,982.50	(349,418.21)	3,887,982.50	2,779,752.52
86361HAA2	13,013,081.24	-	13,013,081.24	12,328,462.58	(684,618.66)	12,328,462.58	9,078,783.67
86361HAB0	8,510,636.17	-	8,510,636.17	7,911,868.46	(598,767.71)	7,911,868.46	8,426,051.80
86363DAA9	9,969,991.34	-	9,969,991.34	9,039,799.82	(930,191.52)	9,039,799.82	6,772,652.20
872227AE3	1,910,011.85	-	1,910,011.85	1,844,666.33	(65,345.52)	1,844,666.33	1,429,459.84
88157QAL2	698,223.45	-	698,223.45	630,409.67	(67,813.78)	630,409.67	1,177,582.12
929227QB5	232,806.19	-	232,806.19	223,929.84	(8,876.35)	223,929.84	204,572.07
92922F4M7	4,472,237.35	-	4,472,237.35	4,424,884.76	(47,352.59)	4,424,884.76	3,637,374.21
92922F5T1	7,625,591.08	-	7,625,591.08	7,532,936.26	(92,654.82)	7,532,936.26	6,520,405.82
92922F7Q5	9,591,622.46	-	9,591,622.46	9,395,996.92	(195,625.54)	9,395,996.92	7,443,451.12
92922FTJ7	1,317,040.29	-	1,317,040.29	1,288,359.22	(28,681.07)	1,288,359.22	1,142,701.99
92922FWU8	3,843,712.21	-	3,843,712.21	3,739,680.49	(104,031.72)	3,739,680.49	3,352,423.20
92925CBB7	4,414,949.29	-	4,414,949.29	4,365,574.43	(49,374.86)	4,365,574.43	3,480,246.65
92926SAE6	2,379,476.79	-	2,379,476.79	2,155,902.71	(223,574.08)	2,155,902.71	2,123,918.65
92977YAY7	2,965,308.91	-	2,965,308.91	2,448,469.16	(516,839.75)	2,448,469.16	546,787.98
939336X65	1,741,456.57	-	1,741,456.57	1,734,753.31	(6,703.26)	1,734,753.31	1,423,713.09
93934FHC9	8,460,192.37	-	8,460,192.37	8,261,569.02	(198,623.35)	8,261,569.02	5,823,343.48
93934FJQ6	15,137,829.51	-	15,137,829.51	14,738,335.29	(399,494.22)	14,738,335.29	10,723,494.10
94985JAG5	18,250,633.52	-	18,250,633.52	17,383,308.71	(867,324.81)	17,383,308.71	18,341,034.90
Totals	\$ 1,130,732,656.14	\$ -	\$ 1,130,732,656.14	\$ 1,078,535,670.23	\$ (52,196,985.91)	\$ 1,078,535,670.23	\$ 839,143,290.12

The following is the impairment listing for loan-backed and structured securities for the three months ended March 31, 2011:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00104BAF7	\$ 589,264.55	\$ -	\$ 589,264.55	\$ 370,000.00	\$ (219,264.55)	\$ 370,000.00	\$ 370,000.00
00442JAE4	4,710,238.75	-	4,710,238.75	4,591,638.85	(118,599.90)	4,591,638.85	4,358,285.50
00443MAB2	107,340.11	-	107,340.11	44,124.83	(63,215.28)	44,124.83	102,421.70
007034AQ4	5,744,388.21	-	5,744,388.21	5,575,615.32	(168,772.89)	5,575,615.32	4,579,731.18
007037BK9	465,256.29	-	465,256.29	455,228.08	(10,028.21)	455,228.08	286,020.38
02146QAB9	13,969,583.20	-	13,969,583.20	13,546,263.46	(423,319.74)	13,546,263.46	9,685,224.76
02146YAD8	19,095,808.55	-	19,095,808.55	18,491,705.71	(604,102.84)	18,491,705.71	13,815,077.28
02147CAA1	9,299,089.46	-	9,299,089.46	9,131,294.02	(167,795.44)	9,131,294.02	7,305,515.71
02147DAB7	11,404,066.20	-	11,404,066.20	11,369,792.68	(34,273.52)	11,369,792.68	7,999,314.91
02147DAV3	241,249.93	-	241,249.93	238,256.54	(2,993.39)	238,256.54	199,677.64
02660TBF9	595,863.06	-	595,863.06	330,916.80	(264,946.26)	330,916.80	1,822,967.12
02660TGN7	8,456,484.74	-	8,456,484.74	8,384,613.41	(71,871.33)	8,384,613.41	5,817,181.56
02660TJB0	23,152,239.57	-	23,152,239.57	22,442,810.38	(709,429.19)	22,442,810.38	15,237,145.62
040104QN4	3,890,541.86	-	3,890,541.86	3,668,981.66	(221,560.20)	3,668,981.66	3,003,086.41
040104RV5	2,469,257.30	-	2,469,257.30	2,257,355.17	(211,902.13)	2,257,355.17	2,267,884.85
040104TF8	100,649.39	-	100,649.39	91,964.11	(8,685.28)	91,964.11	76,041.11
040104TG6	1,104,833.64	-	1,104,833.64	1,019,703.02	(85,130.62)	1,019,703.02	991,534.77
04012XAC9	264,724.37	-	264,724.37	258,174.29	(6,550.08)	258,174.29	220,523.01
05946XYP2	1,026,184.98	-	1,026,184.98	1,008,137.20	(18,047.78)	1,008,137.20	734,911.14
06050HKX5	623,869.62	-	623,869.62	596,011.52	(27,858.10)	596,011.52	300,516.70
06652DAA7	6,424,514.04	-	6,424,514.04	6,312,530.55	(111,983.49)	6,312,530.55	4,993,003.57
07386HSP7	5,557,088.46	-	5,557,088.46	5,425,826.64	(131,261.82)	5,425,826.64	4,079,941.14
073879Z92	10,172,212.75	-	10,172,212.75	9,405,259.64	(766,953.11)	9,405,259.64	4,439,959.88
07400XAB4	2,944,475.07	-	2,944,475.07	2,788,229.78	(156,245.29)	2,788,229.78	1,996,542.09
07401LAA1	14,001,795.67	-	14,001,795.67	13,574,890.71	(426,904.96)	13,574,890.71	10,381,739.73
07401LAQ6	3,257,015.04	-	3,257,015.04	3,158,276.26	(98,738.78)	3,158,276.26	2,519,662.32
07820QAY1	13,662,239.67	-	13,662,239.67	13,484,688.23	(177,551.44)	13,484,688.23	10,195,113.55
124860CB1	148,669.82	-	148,669.82	143,459.50	(5,210.32)	143,459.50	124,770.44
1248MGAJ3	99,253.04	-	99,253.04	80,199.54	(19,053.50)	80,199.54	90,039.92
12498NAB9	890,567.71	-	890,567.71	832,500.69	(58,067.02)	832,500.69	852,007.46
126670KN7	1,828,008.00	-	1,828,008.00	1,817,051.16	(10,956.84)	1,817,051.16	1,213,236.00
12667GR62	9,241,938.15	-	9,241,938.15	8,737,452.47	(504,485.68)	8,737,452.47	7,663,689.77
12667GRW5	424,692.87	-	424,692.87	400,404.54	(24,288.33)	400,404.54	350,910.91
12667GS20	12,869,652.72	-	12,869,652.72	12,677,552.86	(192,099.86)	12,677,552.86	8,533,662.30
12667GWF6	7,442,163.97	-	7,442,163.97	7,289,790.65	(152,373.32)	7,289,790.65	5,204,045.91
12668A3Q6	8,092,108.87	-	8,092,108.87	7,399,367.09	(692,741.78)	7,399,367.09	4,556,737.42
12668A4B8	14,330,751.54	-	14,330,751.54	13,633,956.43	(696,795.11)	13,633,956.43	10,065,595.58
12668ACZ6	3,581,158.60	-	3,581,158.60	3,510,183.17	(70,975.43)	3,510,183.17	2,463,470.40

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12668AEV3	\$ 11,134,871.86	\$ -	\$ 11,134,871.86	\$ 10,779,411.63	\$ (355,460.23)	\$ 10,779,411.63	\$ 8,434,689.81
12668AGW9	264,810.23	-	264,810.23	251,757.65	(13,052.58)	251,757.65	195,768.44
12668AVP7	6,836,111.07	-	6,836,111.07	6,507,240.39	(328,870.68)	6,507,240.39	4,999,884.03
12668BB77	22,294,484.46	-	22,294,484.46	21,191,222.90	(1,103,261.56)	21,191,222.90	17,162,616.50
12668BDC4	4,905,143.40	-	4,905,143.40	4,847,413.62	(57,729.78)	4,847,413.62	4,057,423.69
12668BE33	14,231,458.83	-	14,231,458.83	14,226,030.94	(5,427.89)	14,226,030.94	10,337,333.12
126694N46	318,261.79	-	318,261.79	302,062.88	(16,198.91)	302,062.88	223,220.43
126694YM4	3,024,822.87	-	3,024,822.87	2,838,508.63	(186,314.24)	2,838,508.63	2,251,075.13
12669FW82	1,040,834.11	-	1,040,834.11	1,034,923.79	(5,910.32)	1,034,923.79	674,342.64
12669GKH3	12,108,184.91	-	12,108,184.91	12,052,219.02	(55,965.89)	12,052,219.02	10,051,057.69
12669GMS7	229,995.60	-	229,995.60	213,867.62	(16,127.98)	213,867.62	179,517.12
12669GTV3	366,063.26	-	366,063.26	361,031.76	(5,031.50)	361,031.76	268,628.38
12669GUR0	3,459,992.03	-	3,459,992.03	3,430,694.44	(29,297.59)	3,430,694.44	2,465,216.68
152314MJ6	1,339,409.85	-	1,339,409.85	1,224,692.73	(114,717.12)	1,224,692.73	1,187,215.36
172939AB6	10,187.44	-	10,187.44	7,626.42	(2,561.02)	7,626.42	9,659.23
22943HAD8	11,301,065.00	-	11,301,065.00	10,539,636.45	(761,428.55)	10,539,636.45	7,572,075.00
23242TAB2	3,135,355.37	-	3,135,355.37	2,834,797.20	(300,558.17)	2,834,797.20	2,844,347.15
23243AAD8	1,053,437.78	-	1,053,437.78	1,024,227.89	(29,209.89)	1,024,227.89	755,911.63
23245QAA7	2,167,522.27	-	2,167,522.27	2,110,320.01	(57,202.26)	2,110,320.01	1,664,856.22
23332UAR5	8,321,635.47	-	8,321,635.47	8,259,216.82	(62,418.65)	8,259,216.82	6,824,519.40
23332UAS3	95,237.17	-	95,237.17	87,835.28	(7,401.89)	87,835.28	99,417.38
23332UBV5	5,364,682.19	-	5,364,682.19	5,319,810.41	(44,871.78)	5,319,810.41	3,885,660.43
23332UBW3	205,837.23	-	205,837.23	194,753.01	(11,084.22)	194,753.01	193,229.95
23332UDU5	18,530,850.60	-	18,530,850.60	18,295,392.40	(235,458.20)	18,295,392.40	12,847,439.68
251508AB3	7,886,794.96	-	7,886,794.96	7,853,452.30	(33,342.66)	7,853,452.30	5,243,323.95
251510EH2	29,271,090.55	-	29,271,090.55	29,156,187.86	(114,902.69)	29,156,187.86	28,575,495.79
251510FB4	4,353,161.88	-	4,353,161.88	4,322,367.38	(30,794.50)	4,322,367.38	3,614,213.05
251510NC3	12,037,926.40	-	12,037,926.40	11,830,296.16	(207,630.24)	11,830,296.16	4,058,844.82
32113JAA3	652,415.48	-	652,415.48	631,834.69	(20,580.79)	631,834.69	458,747.41
36298XAB8	20,912,320.60	-	20,912,320.60	20,392,850.48	(519,470.12)	20,392,850.48	20,818,002.95
39538RAB5	10,077,417.59	-	10,077,417.59	9,966,990.98	(110,426.61)	9,966,990.98	7,013,397.00
39538RBB4	11,624,399.05	-	11,624,399.05	11,244,009.67	(380,389.38)	11,244,009.67	8,373,948.18
39538WFH6	9,786,332.77	-	9,786,332.77	9,398,523.77	(387,809.00)	9,398,523.77	6,641,100.36
39538WHF8	26,346,268.95	-	26,346,268.95	25,365,678.60	(980,590.35)	25,365,678.60	19,090,452.87
39539GAA0	4,445,526.26	-	4,445,526.26	4,265,434.30	(180,091.96)	4,265,434.30	3,373,549.63
40430HBJ6	2,092.00	-	2,092.00	547.43	(1,544.57)	547.43	2,374.38
41161PHC0	6,988,120.14	-	6,988,120.14	6,987,832.35	(287.79)	6,987,832.35	5,977,628.80
41161PHU0	6,954,769.74	-	6,954,769.74	6,928,264.20	(26,505.54)	6,928,264.20	5,852,295.66
41161PL43	17,262,240.50	-	17,262,240.50	16,479,455.42	(782,785.08)	16,479,455.42	13,247,528.30
41161PMG5	14,501,616.74	-	14,501,616.74	14,480,869.67	(20,747.07)	14,480,869.67	10,843,536.30
41161PQU0	11,745,812.76	-	11,745,812.76	11,425,500.98	(320,311.78)	11,425,500.98	9,321,170.97
41161PTN3	1,953,112.70	-	1,953,112.70	1,900,781.42	(52,331.28)	1,900,781.42	1,498,229.08
41161PWB5	6,171,180.55	-	6,171,180.55	5,958,151.99	(213,028.56)	5,958,151.99	4,487,320.60
41161PXH1	698,628.16	-	698,628.16	696,041.87	(2,586.29)	696,041.87	513,578.10
41162DAF6	9,355,131.20	-	9,355,131.20	9,283,308.59	(71,822.61)	9,283,308.59	7,322,078.83
41164LAB5	13,057,462.44	-	13,057,462.44	12,958,126.46	(99,335.98)	12,958,126.46	9,202,510.60
41164YAB7	11,016,022.42	-	11,016,022.42	10,930,434.33	(85,588.09)	10,930,434.33	7,930,491.60
43739EAP2	17,851,761.66	-	17,851,761.66	17,261,257.96	(590,503.70)	17,261,257.96	14,809,109.55
45254NHV2	285,324.23	-	285,324.23	254,001.98	(31,322.25)	254,001.98	219,107.68
45254NJG3	1,173,132.25	-	1,173,132.25	1,168,231.39	(4,900.86)	1,168,231.39	976,895.85
45254NKF3	4,584,071.58	-	4,584,071.58	4,572,566.46	(11,505.12)	4,572,566.46	4,435,278.03
45254NKX4	5,589,579.43	-	5,589,579.43	5,323,416.56	(266,162.87)	5,323,416.56	4,413,186.16
45254NMB0	1,079,859.80	-	1,079,859.80	1,060,867.26	(18,992.54)	1,060,867.26	975,349.02
45254NNP8	11,991,237.76	-	11,991,237.76	11,561,972.08	(429,265.68)	11,561,972.08	8,596,589.87
45254NPA9	13,922,074.80	-	13,922,074.80	13,831,744.89	(90,329.91)	13,831,744.89	11,508,051.01
45254NPU5	4,920,186.83	-	4,920,186.83	4,892,838.11	(27,348.72)	4,892,838.11	3,592,541.58
45254TRX4	307,714.39	-	307,714.39	302,793.09	(4,921.30)	302,793.09	224,239.78
45254TSM7	3,485,160.64	-	3,485,160.64	3,365,767.96	(119,392.68)	3,365,767.96	2,368,775.82
45660LKW8	23,500,330.55	-	23,500,330.55	23,457,394.18	(42,936.37)	23,457,394.18	16,946,705.27
45660LW96	3,188,739.98	-	3,188,739.98	3,167,553.69	(21,186.29)	3,167,553.69	2,008,996.89
45660N3S2	4,686,399.88	-	4,686,399.88	4,659,784.99	(26,614.89)	4,659,784.99	4,427,591.12
45660NS30	1,290,339.16	-	1,290,339.16	1,277,361.61	(12,977.55)	1,277,361.61	988,812.55
456612AC4	15,042,353.71	-	15,042,353.71	14,818,974.78	(223,378.93)	14,818,974.78	10,400,450.35
45667WAA6	3,069,479.51	-	3,069,479.51	3,062,662.92	(6,816.59)	3,062,662.92	2,761,372.48
46627MCS4	6,340,775.64	-	6,340,775.64	6,160,725.55	(180,050.09)	6,160,725.55	5,541,127.70
525221CD7	185,229.78	-	185,229.78	180,661.01	(4,568.77)	180,661.01	26,503.00
525221EN3	11,462,368.81	-	11,462,368.81	10,860,051.52	(602,317.29)	10,860,051.52	7,326,416.44
550279AA1	4,367,826.86	-	4,367,826.86	4,314,531.93	(53,294.93)	4,314,531.93	3,515,439.50
55027AAU4	5,543,452.77	-	5,543,452.77	5,520,686.30	(22,766.47)	5,520,686.30	3,402,820.15
55027BAA6	48,831.32	-	48,831.32	48,511.76	(319.56)	48,511.76	32,715.29
576433E44	120,059.39	-	120,059.39	94,910.72	(25,148.67)	94,910.72	61,270.24
576433H33	3,896,952.23	-	3,896,952.23	3,680,166.16	(216,786.07)	3,680,166.16	3,807,533.53

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
576433RU2	\$ 1,597,338.00	\$ -	\$ 1,597,338.00	\$ 1,569,649.11	\$ (27,688.89)	\$ 1,569,649.11	\$ 1,144,800.00
576433SE7	1,551,096.00	-	1,551,096.00	1,447,701.42	(103,394.58)	1,447,701.42	865,180.00
576433YN0	1,163,479.97	-	1,163,479.97	1,152,853.52	(10,626.45)	1,152,853.52	808,353.27
576438AA3	3,209,357.95	-	3,209,357.95	3,200,667.18	(8,690.77)	3,200,667.18	2,878,466.05
57643LMP8	1,965,723.00	-	1,965,723.00	1,783,011.54	(182,711.46)	1,783,011.54	1,339,842.00
59020UQ40	1,063,563.18	-	1,063,563.18	1,032,423.17	(31,140.01)	1,032,423.17	867,899.64
59020UQ57	3,353,720.00	-	3,353,720.00	3,228,910.72	(124,809.28)	3,228,910.72	1,648,808.00
617463AA2	37,690.90	-	37,690.90	18,533.08	(19,157.82)	18,533.08	16,164.87
61750FAE0	698,158.75	-	698,158.75	661,931.44	(36,227.31)	661,931.44	631,736.61
617526AE8	316,386.07	-	316,386.07	307,351.88	(9,034.19)	307,351.88	284,354.06
61913PAA0	11,861,939.34	-	11,861,939.34	11,822,612.33	(39,327.01)	11,822,612.33	10,884,079.39
65535VRK6	630,330.10	-	630,330.10	612,332.91	(17,997.19)	612,332.91	596,472.32
65535VUS5	2,071,573.08	-	2,071,573.08	1,978,385.06	(93,188.02)	1,978,385.06	1,945,131.37
68383NCA9	22,031,572.87	-	22,031,572.87	21,626,068.73	(405,504.14)	21,626,068.73	16,461,150.17
68383NCD3	2,849,829.00	-	2,849,829.00	2,774,887.20	(74,941.80)	2,774,887.20	2,212,749.00
68383NCU5	8,267,552.26	-	8,267,552.26	7,994,840.81	(272,711.45)	7,994,840.81	6,364,415.96
68383NDT7	8,030,564.95	-	8,030,564.95	7,994,189.90	(36,375.05)	7,994,189.90	4,752,065.89
68400XAY6	141,048.56	-	141,048.56	138,640.06	(2,408.50)	138,640.06	115,827.33
74922MAB7	9,380,033.34	-	9,380,033.34	9,093,054.21	(286,979.13)	9,093,054.21	6,450,401.08
74922MAC5	1,231,505.34	-	1,231,505.34	1,195,511.69	(35,993.65)	1,195,511.69	890,221.13
75114GAC3	19,526,531.48	-	19,526,531.48	19,000,440.48	(526,091.00)	19,000,440.48	12,961,241.65
75114HAD9	18,413,725.00	-	18,413,725.00	18,074,722.94	(339,002.06)	18,074,722.94	12,041,468.43
75114NAA2	9,234,696.08	-	9,234,696.08	8,968,477.42	(266,218.66)	8,968,477.42	7,380,035.09
75114NAB0	3,321,540.25	-	3,321,540.25	3,223,849.24	(97,691.01)	3,223,849.24	2,941,939.37
76110GUG4	1,736,618.13	-	1,736,618.13	1,675,102.89	(61,515.24)	1,675,102.89	1,358,606.99
76110GV40	3,213,701.21	-	3,213,701.21	3,205,742.15	(7,959.06)	3,205,742.15	2,857,699.66
76110GZR5	2,519,125.78	-	2,519,125.78	2,505,685.90	(13,439.88)	2,505,685.90	2,338,107.19
761118NN4	9,616,233.11	-	9,616,233.11	9,212,465.59	(403,767.52)	9,212,465.59	6,681,967.45
761118RJ9	423,258.56	-	423,258.56	406,328.16	(16,930.40)	406,328.16	261,230.49
761118RM2	19,565,066.00	-	19,565,066.00	19,011,802.61	(553,263.39)	19,011,802.61	13,212,157.50
761118WP9	11,843,541.36	-	11,843,541.36	11,505,430.18	(338,111.18)	11,505,430.18	8,165,585.15
79549ASN0	243,550.34	-	243,550.34	200,363.11	(43,187.23)	200,363.11	168,206.90
81378EAA1	3,325,082.01	-	3,325,082.01	3,030,042.82	(295,039.19)	3,030,042.82	2,880,970.89
81379EAA0	445,843.20	-	445,843.20	409,125.62	(36,717.58)	409,125.62	430,709.52
84752CAE7	1,633,787.58	-	1,633,787.58	1,535,515.37	(98,272.21)	1,535,515.37	791,931.67
863579KG2	3,460,787.26	-	3,460,787.26	3,339,320.77	(121,466.49)	3,339,320.77	3,182,371.09
863579YR3	7,440,056.27	-	7,440,056.27	7,217,490.27	(222,566.00)	7,217,490.27	6,686,531.36
86358R3Q8	1,205,956.26	-	1,205,956.26	1,200,264.50	(5,691.76)	1,200,264.50	982,167.28
86358RM46	129,912.67	-	129,912.67	103,247.22	(26,665.45)	103,247.22	122,123.77
86358RUQ8	105,006.50	-	105,006.50	89,035.08	(15,971.42)	89,035.08	91,206.95
86359DDB0	1,765,617.79	-	1,765,617.79	1,696,568.33	(69,049.46)	1,696,568.33	1,166,875.20
86359LRC5	17,540.37	-	17,540.37	13,236.91	(4,303.46)	13,236.91	31,935.87
86359LRW1	22,756,103.11	-	22,756,103.11	21,797,764.20	(958,338.91)	21,797,764.20	16,701,576.04
86359LSM2	1,490,375.66	-	1,490,375.66	1,440,589.88	(49,785.78)	1,440,589.88	1,099,477.16
86360JAA9	11,920,034.77	-	11,920,034.77	11,840,252.44	(79,782.33)	11,840,252.44	7,239,970.92
86360KAF5	36,222,587.38	-	36,222,587.38	35,336,677.60	(885,909.78)	35,336,677.60	24,333,653.21
86360UAF3	4,442,388.60	-	4,442,388.60	4,343,127.77	(99,260.83)	4,343,127.77	3,047,124.69
86361HAA2	13,825,102.94	-	13,825,102.94	13,371,516.87	(453,586.07)	13,371,516.87	9,456,897.06
86363DAA9	10,299,552.90	-	10,299,552.90	10,255,608.56	(43,944.34)	10,255,608.56	7,463,825.12
872227AE3	2,014,117.80	-	2,014,117.80	1,965,394.21	(48,723.59)	1,965,394.21	1,538,096.28
92922F4M7	4,539,232.27	-	4,539,232.27	4,536,178.47	(3,053.80)	4,536,178.47	3,916,451.50
92922F5T1	7,724,800.87	-	7,724,800.87	7,704,580.05	(20,220.82)	7,704,580.05	6,650,764.95
92922F7Q5	9,859,684.75	-	9,859,684.75	9,783,806.88	(75,877.87)	9,783,806.88	8,097,662.24
92925CBB7	4,506,802.70	-	4,506,802.70	4,491,511.62	(15,291.08)	4,491,511.62	3,758,867.25
92926SAE6	824,848.92	-	824,848.92	774,661.89	(50,187.03)	774,661.89	757,579.02
9393365V1	1,769,138.97	-	1,769,138.97	1,739,381.10	(29,757.87)	1,739,381.10	1,427,128.46
93934FHC9	9,128,097.42	-	9,128,097.42	8,741,946.24	(386,151.18)	8,741,946.24	6,516,986.72
93934FJQ6	16,690,260.80	-	16,690,260.80	15,636,115.76	(1,054,145.04)	15,636,115.76	11,880,107.18
Total	\$ 1,097,705,351.09	\$ -	\$ 1,097,705,351.09	\$ 1,068,852,203.67	\$ (28,853,147.42)	\$ 1,068,852,203.67	\$ 816,688,348.33

The following is the impairment listing for loan-backed and structured securities for the three months ended December 31, 2010:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
02146QAB9	\$ 14,448,993.31	\$ -	\$ 14,448,993.31	\$ 14,244,814.08	\$ (204,179.23)	\$ 14,244,814.08	\$ 9,484,475.75
02146TAQ0	18,412,140.00	-	18,412,140.00	18,352,529.00	(59,611.00)	18,352,529.00	18,130,624.75
02146YAD8	20,261,686.16	-	20,261,686.16	19,945,112.54	(316,573.62)	19,945,112.54	14,832,305.08
02147CAA1	10,097,939.94	-	10,097,939.94	9,416,554.84	(681,385.10)	9,416,554.84	7,787,184.64
02660TGN7	8,754,096.98	-	8,754,096.98	8,677,030.04	(77,066.94)	8,677,030.04	5,975,830.40

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
02660TJB0	\$ 23,776,128.29	\$ -	\$ 23,776,128.29	\$ 23,755,283.44	\$ (20,844.85)	\$ 23,755,283.44	\$ 15,304,554.36
02660XAD6	12,180,682.71	-	12,180,682.71	11,336,494.86	(844,187.85)	11,336,494.86	9,031,451.90
026929AA7	10,718,076.04	-	10,718,076.04	9,444,878.09	(1,273,197.95)	9,444,878.09	8,315,716.26
026929AD1	9,368,612.93	-	9,368,612.93	9,096,004.65	(272,608.28)	9,096,004.65	6,162,007.37
040104RV5	2,603,098.37	-	2,603,098.37	2,502,489.46	(100,608.91)	2,502,489.46	2,420,836.71
040104TF8	103,869.89	-	103,869.89	103,530.66	(339.23)	103,530.66	79,424.84
040104TG6	1,230,052.26	-	1,230,052.26	1,147,807.90	(82,244.36)	1,147,807.90	1,035,943.88
05539TAU9	251,719.71	-	251,719.71	160,891.91	(90,827.80)	160,891.91	283,300.23
05946XYP2	1,097,222.97	-	1,097,222.97	1,070,289.22	(26,933.75)	1,070,289.22	756,518.81
06652DAA7	6,637,266.97	-	6,637,266.97	6,598,398.37	(38,868.60)	6,598,398.37	5,163,033.88
07386HKS9	416,870.54	-	416,870.54	416,558.95	(311.59)	416,558.95	317,169.75
07386HSP7	5,738,444.67	-	5,738,444.67	5,724,320.80	(14,123.87)	5,724,320.80	4,032,007.24
073879Z92	10,551,946.88	-	10,551,946.88	9,928,106.95	(623,839.93)	9,928,106.95	4,548,895.82
07400XAB4	3,124,249.62	-	3,124,249.62	3,030,931.87	(93,317.75)	3,030,931.87	1,925,943.77
07401LAQ6	3,440,780.83	-	3,440,780.83	3,364,232.01	(76,548.82)	3,364,232.01	2,622,042.19
07820QAY1	7,515,259.03	-	7,515,259.03	7,242,054.27	(273,204.76)	7,242,054.27	5,905,538.13
124860CB1	165,879.86	-	165,879.86	150,674.31	(15,205.55)	150,674.31	123,580.50
12667FUL7	351,690.14	-	351,690.14	211,278.91	(140,411.23)	211,278.91	277,419.77
12667GR62	9,664,947.15	-	9,664,947.15	9,333,922.73	(331,024.42)	9,333,922.73	7,956,062.54
12667GRW5	475,053.45	-	475,053.45	447,078.16	(27,975.29)	447,078.16	369,841.59
12667GS20	13,599,477.60	-	13,599,477.60	13,366,988.50	(232,489.10)	13,366,988.50	8,814,648.76
12667GWF6	7,724,004.83	-	7,724,004.83	7,641,072.51	(82,932.32)	7,641,072.51	5,543,592.60
12668A3Q6	8,585,686.65	-	8,585,686.65	8,381,126.10	(204,560.55)	8,381,126.10	4,753,133.96
12668ACG8	3,839,090.67	-	3,839,090.67	3,750,962.58	(88,128.09)	3,750,962.58	3,747,020.72
12668ACY9	853,860.86	-	853,860.86	770,724.66	(83,136.20)	770,724.66	769,495.18
12668ACZ6	3,710,927.19	-	3,710,927.19	3,637,326.57	(73,600.62)	3,637,326.57	2,464,871.08
12668AEV3	11,793,702.19	-	11,793,702.19	11,375,450.32	(418,251.87)	11,375,450.32	8,396,961.45
12668AGW9	284,909.58	-	284,909.58	276,712.30	(8,197.28)	276,712.30	204,738.25
12668BB77	23,953,380.01	-	23,953,380.01	22,945,237.36	(1,008,142.65)	22,945,237.36	16,350,813.99
12668BDC4	4,967,571.96	-	4,967,571.96	4,951,287.85	(16,284.11)	4,951,287.85	4,017,603.57
12668BE33	15,003,452.29	-	15,003,452.29	14,569,207.83	(434,244.46)	14,569,207.83	9,407,501.88
126694YM4	3,124,425.58	-	3,124,425.58	3,122,304.07	(2,121.51)	3,122,304.07	2,115,448.84
12669GKH3	12,504,442.60	-	12,504,442.60	12,431,945.06	(72,497.54)	12,431,945.06	10,383,416.89
12669GMS7	233,972.43	-	233,972.43	232,261.87	(1,710.56)	232,261.87	179,977.45
14983CAA3	1,463,566.31	-	1,463,566.31	1,332,515.31	(131,051.00)	1,332,515.31	932,463.77
22541SCC0	826,706.05	-	826,706.05	687,210.24	(139,495.81)	687,210.24	589,088.12
22541SXR4	1,581,580.13	-	1,581,580.13	1,542,209.87	(39,370.26)	1,542,209.87	591,680.57
22943HAD8	11,521,669.00	-	11,521,669.00	11,363,834.60	(157,834.40)	11,363,834.60	7,458,495.00
23242TAB2	3,218,904.38	-	3,218,904.38	3,186,203.34	(32,701.04)	3,186,203.34	3,010,086.96
23243AAD8	1,088,087.88	-	1,088,087.88	1,073,143.44	(14,944.44)	1,073,143.44	726,643.99
23245QAA7	2,236,632.77	-	2,236,632.77	2,193,538.17	(43,094.60)	2,193,538.17	1,526,290.38
23332UAS3	105,300.42	-	105,300.42	102,688.24	(2,612.18)	102,688.24	84,880.39
23332UBV5	5,550,856.24	-	5,550,856.24	5,526,622.70	(24,233.54)	5,526,622.70	3,922,868.40
23332UBW3	246,060.64	-	246,060.64	229,762.16	(16,298.48)	229,762.16	215,576.48
23332UDU5	19,008,385.73	-	19,008,385.73	18,993,000.02	(15,385.71)	18,993,000.02	13,049,034.53
251510NC3	13,060,630.74	-	13,060,630.74	12,053,318.60	(1,007,312.14)	12,053,318.60	3,795,618.41
28140XAE9	60,000.00	-	60,000.00	44,000.00	(16,000.00)	44,000.00	494,488.00
32056CAH2	16,313,358.17	-	16,313,358.17	16,179,762.26	(133,595.91)	16,179,762.26	15,652,469.50
32113JAA3	669,046.59	-	669,046.59	664,840.15	(4,206.44)	664,840.15	463,752.03
36185NXT2	607,806.99	-	607,806.99	579,066.33	(28,740.66)	579,066.33	434,463.62
362341VU0	21,726,452.50	-	21,726,452.50	21,601,162.75	(125,289.75)	21,601,162.75	21,462,550.00
39538RAB5	10,420,093.52	-	10,420,093.52	10,335,053.07	(85,040.45)	10,335,053.07	7,185,141.36
39538RBB4	11,875,207.42	-	11,875,207.42	11,812,145.61	(63,061.81)	11,812,145.61	7,889,543.62
39539GAA0	4,723,502.08	-	4,723,502.08	4,602,605.08	(120,897.00)	4,602,605.08	3,522,368.91
41161PFR9	1,182,169.39	-	1,182,169.39	1,162,212.39	(19,957.00)	1,162,212.39	938,229.25
41161PHC0	7,220,890.30	-	7,220,890.30	7,180,582.16	(40,308.14)	7,180,582.16	6,114,127.23
41161PL43	18,021,510.71	-	18,021,510.71	17,725,530.16	(295,980.55)	17,725,530.16	13,839,434.02
41161PMG5	14,764,069.42	-	14,764,069.42	14,747,417.39	(16,652.03)	14,747,417.39	10,825,471.99
41161PQU0	12,487,307.26	-	12,487,307.26	12,064,330.64	(422,976.62)	12,064,330.64	9,024,146.97
41161PTN3	2,018,723.39	-	2,018,723.39	2,006,348.71	(12,374.68)	2,006,348.71	1,514,261.67
41161PWB5	6,713,071.88	-	6,713,071.88	6,355,988.18	(357,083.70)	6,355,988.18	4,628,490.16
41164YAB7	11,299,500.90	-	11,299,500.90	11,281,563.16	(17,937.74)	11,281,563.16	7,506,090.71
43739EAP2	18,256,115.36	-	18,256,115.36	18,160,418.60	(95,696.76)	18,160,418.60	14,565,045.06
43739EBS5	8,374,390.32	-	8,374,390.32	8,355,032.83	(19,357.49)	8,355,032.83	7,301,246.74
45254NHV2	300,691.29	-	300,691.29	290,898.98	(9,792.31)	290,898.98	221,590.91
45254NKF3	4,732,249.11	-	4,732,249.11	4,724,414.59	(7,834.52)	4,724,414.59	4,212,911.91
45254NKX4	6,035,894.45	-	6,035,894.45	5,793,499.74	(242,394.71)	5,793,499.74	4,586,894.75
45254NMB0	1,116,324.90	-	1,116,324.90	1,114,967.03	(1,357.87)	1,114,967.03	1,046,767.51
45254NNP8	12,305,621.92	-	12,305,621.92	12,287,880.20	(17,741.72)	12,287,880.20	8,793,161.95
45254NPA9	14,353,564.21	-	14,353,564.21	14,276,967.39	(76,596.82)	14,276,967.39	11,803,031.55
45254NPU5	5,082,621.43	-	5,082,621.43	5,046,699.14	(35,922.29)	5,046,699.14	3,681,845.08
45254TRX4	315,244.71	-	315,244.71	311,797.97	(3,446.74)	311,797.97	212,649.49

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45660LCN7	\$ 4,861,948.71	\$ -	\$ 4,861,948.71	\$ 4,672,646.45	\$ (189,302.26)	\$ 4,672,646.45	\$ 4,269,563.44
45660LW96	3,345,312.09	-	3,345,312.09	3,333,349.55	(11,962.54)	3,333,349.55	2,049,580.49
45660N2Y0	1,460,518.34	-	1,460,518.34	1,439,285.52	(21,232.82)	1,439,285.52	1,213,689.11
45660N5H4	5,238,250.73	-	5,238,250.73	5,092,181.63	(146,069.10)	5,092,181.63	4,490,552.83
456612AC4	16,177,827.43	-	16,177,827.43	15,757,798.99	(420,028.44)	15,757,798.99	9,972,143.38
45661EAA2	298,980.75	-	298,980.75	263,718.82	(35,261.93)	263,718.82	289,471.39
45667WAA6	4,079,440.73	-	4,079,440.73	4,036,144.37	(43,296.36)	4,036,144.37	3,653,628.08
46627MBQ9	11,584,542.77	-	11,584,542.77	11,442,464.64	(142,078.13)	11,442,464.64	8,550,691.57
46627MCS4	6,841,795.66	-	6,841,795.66	6,674,348.47	(167,447.19)	6,674,348.47	5,665,832.01
525221CD7	208,394.77	-	208,394.77	204,814.80	(3,579.97)	204,814.80	25,158.25
525221EN3	12,151,234.09	-	12,151,234.09	11,933,903.95	(217,330.14)	11,933,903.95	8,037,249.54
550279AA1	4,517,204.18	-	4,517,204.18	4,486,967.25	(30,236.93)	4,486,967.25	3,526,976.99
55027AAU4	5,682,311.67	-	5,682,311.67	5,666,582.61	(15,729.06)	5,666,582.61	3,413,905.12
576433FP6	221,639.77	-	221,639.77	200,504.82	(21,134.95)	200,504.82	196,682.93
576433H33	365,848.12	-	365,848.12	361,400.85	(4,447.27)	361,400.85	263,194.74
576433YN0	1,172,399.01	-	1,172,399.01	1,167,359.81	(5,039.20)	1,167,359.81	799,347.14
576438AA3	3,476,898.70	-	3,476,898.70	3,453,570.46	(23,328.24)	3,453,570.46	3,085,054.98
57643LMP8	2,008,496.40	-	2,008,496.40	1,954,400.49	(54,095.91)	1,954,400.49	1,320,453.00
576444AA1	29.53	-	29.53	23.29	(6.24)	23.29	-
59020UQ40	1,128,590.38	-	1,128,590.38	1,103,360.50	(25,229.88)	1,103,360.50	891,563.44
59020UQ57	3,416,568.40	-	3,416,568.40	3,352,825.48	(63,742.92)	3,352,825.48	1,625,444.00
61750FAE0	698,202.75	-	698,202.75	696,309.51	(1,893.24)	696,309.51	630,519.84
617526AE8	331,183.78	-	331,183.78	312,563.99	(18,619.79)	312,563.99	253,447.48
63543XAH2	130,000.00	-	130,000.00	106,600.00	(23,400.00)	106,600.00	100,000.00
65535VRK6	2,053,386.84	-	2,053,386.84	1,808,029.73	(245,357.11)	1,808,029.73	1,798,044.91
68383NBZ5	4,995,248.40	-	4,995,248.40	4,861,967.52	(133,280.88)	4,861,967.52	4,510,670.83
68383NCA9	23,216,567.84	-	23,216,567.84	22,949,842.55	(266,725.29)	22,949,842.55	16,952,836.53
68383NCU5	8,727,049.17	-	8,727,049.17	8,684,094.28	(42,954.89)	8,684,094.28	6,553,022.59
74922MAB7	9,976,829.50	-	9,976,829.50	9,957,553.79	(19,275.71)	9,957,553.79	6,690,689.74
74922MAC5	1,313,967.96	-	1,313,967.96	1,306,444.63	(7,523.33)	1,306,444.63	923,358.99
75114GAC3	20,855,558.93	-	20,855,558.93	20,459,344.05	(396,214.88)	20,459,344.05	13,690,749.84
75114HAD9	19,345,364.47	-	19,345,364.47	19,101,437.62	(243,926.85)	19,101,437.62	12,468,155.89
75114NAA2	9,810,292.02	-	9,810,292.02	9,660,736.07	(149,555.95)	9,660,736.07	7,607,762.42
75114NAB0	3,500,902.86	-	3,500,902.86	3,472,980.33	(27,922.53)	3,472,980.33	2,681,154.37
76110GUG4	1,860,028.29	-	1,860,028.29	1,836,973.30	(23,054.99)	1,836,973.30	1,424,734.61
76110GV40	3,298,671.74	-	3,298,671.74	3,291,701.66	(6,970.08)	3,291,701.66	2,925,633.99
76110GWG2	1,763,554.67	-	1,763,554.67	1,738,271.52	(25,283.15)	1,738,271.52	1,425,890.71
76110GZR5	2,626,903.39	-	2,626,903.39	2,604,544.59	(22,358.80)	2,604,544.59	2,507,946.62
761118KU1	7,123,239.54	-	7,123,239.54	6,731,093.59	(392,145.95)	6,731,093.59	4,636,155.48
761118NN4	272,375.22	-	272,375.22	272,228.16	(147.06)	272,228.16	193,133.69
761118RJ9	447,331.77	-	447,331.77	441,894.15	(5,437.62)	441,894.15	300,341.18
761118RM2	20,318,308.98	-	20,318,308.98	20,202,359.80	(115,949.18)	20,202,359.80	14,089,398.71
761118WP9	12,343,002.48	-	12,343,002.48	12,258,008.40	(84,994.08)	12,258,008.40	8,624,730.74
81379EAA0	441,321.15	-	441,321.15	441,271.71	(49.44)	441,271.71	430,672.17
81744FDK0	2,207,402.93	-	2,207,402.93	2,205,145.50	(2,257.43)	2,205,145.50	1,994,487.78
84752CAE7	1,786,191.78	-	1,786,191.78	1,602,574.26	(183,617.52)	1,602,574.26	775,817.97
863579KG2	3,468,240.06	-	3,468,240.06	3,465,239.64	(3,000.42)	3,465,239.64	3,069,608.24
863579YR3	7,892,555.21	-	7,892,555.21	7,741,323.02	(151,232.19)	7,741,323.02	6,707,709.18
86358RE86	2,220.72	-	2,220.72	1,166.98	(1,053.74)	1,166.98	1,248.02
86358RUQ8	137,580.83	-	137,580.83	106,656.56	(30,924.27)	106,656.56	90,568.86
86359LRC5	25,768.65	-	25,768.65	22,657.86	(3,110.79)	22,657.86	11,959.36
86359LRW1	23,619,297.53	-	23,619,297.53	23,421,584.54	(197,712.99)	23,421,584.54	15,152,873.28
86359LSM2	1,558,522.48	-	1,558,522.48	1,544,925.28	(13,597.20)	1,544,925.28	1,140,219.10
86360JAA9	12,329,779.22	-	12,329,779.22	12,182,977.98	(146,801.24)	12,182,977.98	7,383,034.84
86360KAF5	37,622,122.42	-	37,622,122.42	37,324,048.63	(298,073.79)	37,324,048.63	24,987,868.09
86360UAF3	4,619,353.19	-	4,619,353.19	4,534,579.85	(84,773.34)	4,534,579.85	3,054,747.35
86361HAB0	1,243,558.61	-	1,243,558.61	1,174,373.67	(69,184.94)	1,174,373.67	1,161,305.98
872227AE3	2,093,657.77	-	2,093,657.77	2,075,233.45	(18,424.32)	2,075,233.45	1,504,829.86
88157QAL2	631,469.94	-	631,469.94	602,525.35	(28,944.59)	602,525.35	1,861,011.77
92922F4M7	4,676,773.53	-	4,676,773.53	4,672,260.84	(4,512.69)	4,672,260.84	3,944,984.82
92925CBB7	4,648,166.24	-	4,648,166.24	4,633,690.94	(14,475.30)	4,633,690.94	3,728,752.89
92926SAE6	2,476,608.90	-	2,476,608.90	2,380,788.05	(95,820.85)	2,380,788.05	2,357,899.14
9393365V1	1,665,245.48	-	1,665,245.48	1,659,798.15	(5,447.33)	1,659,798.15	1,317,493.28
939336X65	216,711.94	-	216,711.94	216,554.26	(157.68)	216,554.26	190,082.01
93934FHC9	9,474,150.60	-	9,474,150.60	9,300,269.87	(173,880.73)	9,300,269.87	6,421,681.71
93934FJQ6	17,379,180.03	-	17,379,180.03	16,974,609.65	(404,570.38)	16,974,609.65	11,708,978.95
94983YAQ2	4,291,700.42	-	4,291,700.42	4,233,445.48	(58,254.94)	4,233,445.48	4,159,640.76
94985JAG5	18,539,304.19	-	18,539,304.19	18,097,976.50	(441,327.69)	18,097,976.50	17,595,764.20
Totals	\$ 968,742,508.30	\$ -	\$ 968,742,508.30	\$ 950,111,416.81	\$ (18,631,091.49)	\$ 950,111,416.81	\$ 708,895,636.97

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

The following is the impairment listing for loan-backed and structured securities for the three months ended September 30, 2010:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
01853GAB6	\$ 315,577.41	\$ -	\$ 315,577.41	\$ 159,175.94	\$ (156,401.47)	\$ 159,175.94	\$ 228,692.72
021455AB6	217,922.65	-	217,922.65	171,751.47	(46,171.18)	171,751.47	170,440.77
02146QAB9	15,315,148.69	-	15,315,148.69	14,692,679.05	(622,469.64)	14,692,679.05	9,256,180.84
02146YAD8	21,923,476.60	-	21,923,476.60	20,642,177.10	(1,281,299.50)	20,642,177.10	14,758,081.54
02660WAC0	18,118,365.81	-	18,118,365.81	17,825,056.07	(293,309.74)	17,825,056.07	11,582,896.26
02660XAD6	13,521,492.89	-	13,521,492.89	12,557,598.88	(963,894.01)	12,557,598.88	8,975,927.75
05946XYP2	1,135,040.17	-	1,135,040.17	1,124,034.08	(11,006.09)	1,124,034.08	737,774.51
05948JAA0	370,856.12	-	370,856.12	347,733.91	(23,122.21)	347,733.91	301,269.06
05950DAA8	11,258,446.73	-	11,258,446.73	11,029,698.64	(228,748.09)	11,029,698.64	9,759,921.40
06652DAA7	6,940,157.67	-	6,940,157.67	6,813,727.06	(126,430.61)	6,813,727.06	4,627,820.56
07384M4M1	4,031,948.12	-	4,031,948.12	4,023,103.22	(8,844.90)	4,023,103.22	3,982,434.25
07401LAQ6	3,803,505.80	-	3,803,505.80	3,558,486.75	(245,019.05)	3,558,486.75	2,603,896.54
07820QAY1	14,869,432.69	-	14,869,432.69	14,726,798.37	(142,634.32)	14,726,798.37	11,209,675.01
078446AB7	123,800.00	-	123,800.00	106,000.00	(17,800.00)	106,000.00	106,000.00
12667GCB7	206,610.54	-	206,610.54	198,880.54	(7,730.00)	198,880.54	151,324.74
12667GME0	16,487,323.12	-	16,487,323.12	15,961,905.24	(525,417.88)	15,961,905.24	10,694,700.14
12667GR62	10,404,772.50	-	10,404,772.50	9,837,281.25	(567,491.25)	9,837,281.25	7,913,784.95
12667GRW5	539,562.43	-	539,562.43	496,294.98	(43,267.45)	496,294.98	371,758.24
12667GWF6	8,264,162.73	-	8,264,162.73	7,800,347.76	(463,814.97)	7,800,347.76	5,201,353.71
12668ACG8	4,308,051.40	-	4,308,051.40	3,887,776.89	(420,274.51)	3,887,776.89	3,840,170.55
12668AEV3	12,239,368.11	-	12,239,368.11	12,078,961.61	(160,406.50)	12,078,961.61	7,974,606.21
12668AGW9	3,103,267.46	-	3,103,267.46	2,668,946.20	(434,321.26)	2,668,946.20	2,737,185.05
12668BB77	24,696,080.82	-	24,696,080.82	24,696,080.83	0.01	24,696,080.83	16,158,549.89
12669EH33	210,848.74	-	210,848.74	207,664.23	(3,184.51)	207,664.23	220,823.32
12669FKR3	277,129.34	-	277,129.34	270,766.57	(6,362.77)	270,766.57	316,871.38
12669FW82	1,121,578.12	-	1,121,578.12	1,092,542.53	(29,035.59)	1,092,542.53	725,473.49
12669FXR9	490,839.77	-	490,839.77	459,205.84	(31,633.93)	459,205.84	404,276.42
12669GKH3	12,787,611.38	-	12,787,611.38	12,586,116.25	(201,495.13)	12,586,116.25	10,031,422.26
12669GMS7	251,913.89	-	251,913.89	243,913.35	(8,000.54)	243,913.35	176,788.34
12669GRM5	2,939,270.40	-	2,939,270.40	2,842,771.24	(96,499.16)	2,842,771.24	1,936,810.71
12669GRQ6	7,668,435.17	-	7,668,435.17	7,389,352.71	(279,082.46)	7,389,352.71	5,611,698.50
12669GTV3	391,067.66	-	391,067.66	383,623.63	(7,444.03)	383,623.63	273,968.29
12669GUR0	3,668,651.13	-	3,668,651.13	3,563,519.83	(105,131.30)	3,563,519.83	2,522,515.63
17307G3D8	2,831.79	-	2,831.79	-	(2,831.79)	-	533,586.22
22540V3F7	555,689.29	-	555,689.29	555,689.51	0.22	555,689.51	818,652.39
22540VFZ0	1,516,521.88	-	1,516,521.88	1,464,064.20	(52,457.68)	1,464,064.20	1,450,010.10
22540VG71	154,198.76	-	154,198.76	153,223.28	(975.48)	153,223.28	149,451.18
22541NUB3	1,083,777.04	-	1,083,777.04	1,083,778.44	1.40	1,083,778.44	1,840,135.63
22943HAD8	11,732,570.00	-	11,732,570.00	11,579,553.70	(153,016.30)	11,579,553.70	7,155,180.00
23243AAD8	1,153,405.61	-	1,153,405.61	1,113,903.78	(39,501.83)	1,113,903.78	749,791.47
23245QAA7	2,375,389.07	-	2,375,389.07	2,259,511.63	(115,877.44)	2,259,511.63	1,456,976.36
23332UAR5	8,638,571.19	-	8,638,571.19	8,609,425.68	(29,145.51)	8,609,425.68	6,697,119.18
23332UAS3	112,435.95	-	112,435.95	107,912.99	(4,522.96)	107,912.99	84,845.64
23332UBW3	286,891.33	-	286,891.33	264,732.79	(22,158.54)	264,732.79	222,224.69
251508AB3	8,655,837.10	-	8,655,837.10	8,565,363.51	(90,473.59)	8,565,363.51	5,178,372.00
251510FB4	6,185,608.42	-	6,185,608.42	5,789,092.45	(396,515.97)	5,789,092.45	5,127,079.77
26441EAC5	198,750.00	-	198,750.00	188,500.00	(10,250.00)	188,500.00	137,500.00
35952Z007	4,307,614.21	-	4,307,614.21	4,307,614.20	(0.01)	4,307,614.20	2,775,156.72
35952Z023	4,494,729.04	-	4,494,729.04	4,494,729.06	0.02	4,494,729.06	2,904,482.03
35952Z031	1,455,346.38	-	1,455,346.38	1,455,346.38	-	1,455,346.38	901,984.50
35952Z056	1,067,384.58	-	1,067,384.58	1,067,384.57	(0.01)	1,067,384.57	605,749.50
35952Z064	3,438,088.79	-	3,438,088.79	3,438,088.78	(0.01)	3,438,088.78	1,923,484.50
35952ZA14	587,470.62	-	587,470.62	587,470.60	(0.02)	587,470.60	304,870.08
35952ZA22	223,281.52	-	223,281.52	223,281.53	0.01	223,281.53	117,992.78
36228F5R3	1,619,436.88	-	1,619,436.88	1,572,476.07	(46,960.81)	1,572,476.07	1,371,519.65
362341VU0	21,771,450.00	-	21,771,450.00	21,710,755.00	(60,695.00)	21,710,755.00	21,415,549.75
39538RAB5	10,694,253.20	-	10,694,253.20	10,679,952.60	(14,300.60)	10,679,952.60	7,266,124.20
39538RBB4	12,307,900.80	-	12,307,900.80	12,182,868.11	(125,032.69)	12,182,868.11	7,754,503.45
39538WHF8	29,262,766.18	-	29,262,766.18	27,411,495.65	(1,851,270.53)	27,411,495.65	19,864,672.06
39539GAA0	4,911,882.26	-	4,911,882.26	4,833,348.42	(78,533.84)	4,833,348.42	3,464,247.50
41161PA86	1,701,828.45	-	1,701,828.45	1,490,786.97	(211,041.48)	1,490,786.97	1,629,532.89
41161PHC0	7,493,920.50	-	7,493,920.50	7,389,844.26	(104,076.24)	7,389,844.26	6,175,852.78
41161PHU0	7,220,810.42	-	7,220,810.42	7,137,267.24	(83,543.18)	7,137,267.24	5,910,800.55
41161PKH5	562,454.98	-	562,454.98	541,505.18	(20,949.80)	541,505.18	370,018.19
41161PL43	19,129,744.68	-	19,129,744.68	18,426,719.98	(703,024.70)	18,426,719.98	13,224,900.44
41161PLR2	12,391,086.67	-	12,391,086.67	11,998,519.49	(392,567.18)	11,998,519.49	8,450,271.26
41161PMG5	15,199,514.54	-	15,199,514.54	14,982,039.32	(217,475.22)	14,982,039.32	10,383,699.50
41161PQU0	13,000,530.43	-	13,000,530.43	12,696,117.28	(304,413.15)	12,696,117.28	8,751,337.13
41161PTN3	2,124,055.82	-	2,124,055.82	2,081,083.69	(42,972.13)	2,081,083.69	1,505,550.45

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
41161PTP8	\$ 553,076.04	\$ -	\$ 553,076.04	\$ 456,920.13	\$ (96,155.91)	\$ 456,920.13	\$ 453,781.11
41161PWB5	7,065,569.62	-	7,065,569.62	6,885,660.55	(179,909.07)	6,885,660.55	4,510,555.76
41161PXH1	742,271.49	-	742,271.49	742,271.73	0.24	742,271.73	494,617.80
41164YAB7	11,746,139.88	-	11,746,139.88	11,565,082.50	(181,057.38)	11,565,082.50	7,332,391.43
43739EAP2	18,849,512.45	-	18,849,512.45	18,784,944.99	(64,567.46)	18,784,944.99	14,536,729.90
43739EBJ5	8,949,624.81	-	8,949,624.81	8,821,659.97	(127,964.84)	8,821,659.97	7,213,477.28
43739EBS5	8,756,562.94	-	8,756,562.94	8,517,869.96	(238,692.98)	8,517,869.96	7,336,631.20
45254NJV0	960,700.04	-	960,700.04	960,700.42	0.38	960,700.42	756,983.83
45254NJB6	46,746.73	-	46,746.73	46,746.72	(0.01)	46,746.72	52,745.72
45254NKA4	224,041.93	-	224,041.93	224,041.80	(0.13)	224,041.80	332,456.94
45254NKD8	(1.32)	-	(1.32)	-	1.32	-	-
45254NKF3	5,018,653.69	-	5,018,653.69	4,908,081.05	(110,572.64)	4,908,081.05	4,300,014.50
45254NKX4	6,124,868.68	-	6,124,868.68	6,124,866.22	(2.46)	6,124,866.22	4,720,907.43
45254NMB0	1,163,166.27	-	1,163,166.27	1,161,406.97	(1,759.30)	1,161,406.97	1,068,987.98
45254NPA9	15,036,711.89	-	15,036,711.89	14,719,089.65	(317,622.24)	14,719,089.65	11,892,639.43
45254NPU5	5,258,384.35	-	5,258,384.35	5,198,365.97	(60,018.38)	5,198,365.97	3,758,246.63
45254TRX4	342,613.23	-	342,613.23	316,284.73	(26,328.50)	316,284.73	208,761.84
45254TSM7	4,225,866.17	-	4,225,866.17	3,663,996.17	(561,870.00)	3,663,996.17	2,423,868.49
45660LCN7	5,239,350.62	-	5,239,350.62	5,001,581.94	(237,768.68)	5,001,581.94	3,716,561.91
45660LW96	3,563,424.88	-	3,563,424.88	3,483,454.21	(79,970.67)	3,483,454.21	1,888,667.16
45660LYW3	4,004,451.09	-	4,004,451.09	3,891,019.56	(113,431.53)	3,891,019.56	2,574,399.43
45660N2J3	4,467,285.84	-	4,467,285.84	4,293,555.15	(173,730.69)	4,293,555.15	3,881,904.68
45660N2Y0	948,804.49	-	948,804.49	882,014.06	(66,790.43)	882,014.06	779,188.25
45660N5H4	5,532,813.22	-	5,532,813.22	5,316,557.23	(216,255.99)	5,316,557.23	4,369,019.25
45660NT88	37,194.86	-	37,194.86	37,194.85	(0.01)	37,194.85	30,242.64
45660NT96	2,189,864.31	-	2,189,864.31	2,189,863.24	(1.07)	2,189,863.24	2,284,044.24
45660NZY4	684,972.49	-	684,972.49	544,029.09	(140,943.40)	544,029.09	521,157.79
456612AC4	16,797,506.75	-	16,797,506.75	16,597,595.79	(199,910.96)	16,597,595.79	9,831,944.46
45667WAA6	4,524,224.47	-	4,524,224.47	4,303,109.97	(221,114.50)	4,303,109.97	3,689,400.20
466247UG6	2,482,668.34	-	2,482,668.34	2,390,848.33	(91,820.01)	2,390,848.33	2,331,608.44
466247XE8	6,371,997.72	-	6,371,997.72	6,069,584.73	(302,412.99)	6,069,584.73	4,586,230.71
46627MBQ9	12,050,725.65	-	12,050,725.65	12,032,071.53	(18,654.12)	12,032,071.53	8,788,610.44
46627MCS4	7,327,618.22	-	7,327,618.22	7,150,856.75	(176,761.47)	7,150,856.75	5,708,510.90
525221EN3	10,588,146.60	-	10,588,146.60	10,588,146.58	(0.02)	10,588,146.58	5,298,470.74
52524VAG4	13,212,894.86	-	13,212,894.86	13,089,620.17	(123,274.69)	13,089,620.17	9,184,301.55
52524YAF0	11,991,764.08	-	11,991,764.08	11,641,423.12	(350,340.96)	11,641,423.12	7,760,208.49
550279AA1	4,717,438.29	-	4,717,438.29	4,675,300.57	(42,137.72)	4,675,300.57	3,273,871.94
576433G42	8,850,528.14	-	8,850,528.14	8,129,032.12	(721,496.02)	8,129,032.12	5,594,205.80
576433H33	4,886,747.63	-	4,886,747.63	4,348,051.54	(538,696.09)	4,348,051.54	4,136,601.25
576433YN0	1,214,309.95	-	1,214,309.95	1,197,293.79	(17,016.16)	1,197,293.79	798,990.36
5899292N7	1,415,763.00	-	1,415,763.00	1,349,644.34	(66,118.66)	1,349,644.34	1,414,867.73
589929N38	1,629,558.07	-	1,629,558.07	1,594,775.54	(34,782.53)	1,594,775.54	1,610,979.53
589929X29	5,127,014.56	-	5,127,014.56	4,818,404.16	(308,610.40)	4,818,404.16	4,315,822.14
59020UQ40	1,167,867.51	-	1,167,867.51	1,155,779.25	(12,088.26)	1,155,779.25	893,776.27
59020UUJ2	4,123,214.32	-	4,123,214.32	4,076,568.14	(46,646.18)	4,076,568.14	3,933,855.78
65538DAA3	2,179,558.44	-	2,179,558.44	2,179,557.06	(1.38)	2,179,557.06	2,095,348.68
68389FBW3	27,046.37	-	27,046.37	27,046.35	(0.02)	27,046.35	24,973.66
68402CAC8	0.01	-	0.01	-	(0.01)	-	-
75114NAA2	10,646,212.81	-	10,646,212.81	10,245,995.66	(400,217.15)	10,245,995.66	7,727,336.21
76110GUG4	1,990,234.46	-	1,990,234.46	1,925,874.38	(64,360.08)	1,925,874.38	1,481,729.24
76110GVT5	2,493,562.99	-	2,493,562.99	2,486,158.33	(7,404.66)	2,486,158.33	2,178,268.75
761118FM5	9,752,737.95	-	9,752,737.95	9,354,444.30	(398,293.65)	9,354,444.30	8,617,114.44
761118KU1	7,442,272.50	-	7,442,272.50	7,430,447.20	(11,825.30)	7,430,447.20	4,644,418.74
761118NN4	10,432,656.72	-	10,432,656.72	10,204,239.05	(228,417.67)	10,204,239.05	7,033,121.76
761118RJ9	488,408.80	-	488,408.80	462,987.99	(25,420.81)	462,987.99	300,904.60
761118RM2	21,666,131.31	-	21,666,131.31	20,916,216.23	(749,915.08)	20,916,216.23	14,052,319.33
761118WP9	12,874,173.63	-	12,874,173.63	12,797,095.06	(77,078.57)	12,797,095.06	8,551,632.87
86358RE86	17,366.09	-	17,366.09	2,248.76	(15,117.33)	2,248.76	3,428.27
86358RM46	350,467.76	-	350,467.76	133,851.43	(216,616.33)	133,851.43	108,807.92
86359AHD8	438,703.87	-	438,703.87	438,703.59	(0.28)	438,703.59	330,232.94
86359AKY8	13,278.14	-	13,278.14	2,731.14	(10,547.00)	2,731.14	42,413.30
86359ANH2	1,121,987.38	-	1,121,987.38	1,121,987.74	0.36	1,121,987.74	1,433,412.38
86359BLB5	457,200.74	-	457,200.74	457,200.76	0.02	457,200.76	431,187.77
86360JAA9	12,633,558.24	-	12,633,558.24	12,470,929.45	(162,628.79)	12,470,929.45	7,166,044.85
86360JAE1	9,612,734.02	-	9,612,734.02	9,432,090.49	(180,643.53)	9,432,090.49	6,081,301.19
86360JAN1	3,973,346.86	-	3,973,346.86	3,644,430.16	(328,916.70)	3,644,430.16	2,669,203.75
86362HAA1	9,732,004.85	-	9,732,004.85	9,669,355.43	(62,649.42)	9,669,355.43	6,303,512.25
86363DAA9	11,100,750.94	-	11,100,750.94	10,787,194.86	(313,556.08)	10,787,194.86	7,266,839.92
872227AE3	2,142,462.69	-	2,142,462.69	2,141,670.14	(792.55)	2,141,670.14	1,322,792.73
88157QAL2	688,444.09	-	688,444.09	613,410.93	(75,033.16)	613,410.93	576,698.38
885220FS7	7,996,861.63	-	7,996,861.63	7,964,320.78	(32,540.85)	7,964,320.78	7,662,404.08
92922F3L0	51,484,447.88	-	51,484,447.88	49,433,429.41	(2,051,018.47)	49,433,429.41	49,833,739.27

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
92922F7Q5	\$ 1,876,856.60	\$ -	\$ 1,876,856.60	\$ 1,874,122.87	\$ (2,733.73)	\$ 1,874,122.87	\$ 1,492,812.11
92922FB72	1,326,944.28	-	1,326,944.28	1,326,944.06	(0.22)	1,326,944.06	946,078.73
92922FTJ7	1,441,180.90	-	1,441,180.90	1,409,771.75	(31,409.15)	1,409,771.75	1,187,199.76
92922FWU8	4,388,801.07	-	4,388,801.07	4,301,144.68	(87,656.39)	4,301,144.68	3,881,799.87
92922FZF8	9,128,522.75	-	9,128,522.75	9,128,521.67	(1.08)	9,128,521.67	8,102,814.84
9393365V1	1,972,912.19	-	1,972,912.19	1,966,439.22	(6,472.97)	1,966,439.22	1,552,139.95
939336U35	(0.06)	-	(0.06)	-	0.06	-	-
939336X65	224,509.69	-	224,509.69	223,209.26	(1,300.43)	223,209.26	176,455.82
93934FJQ6	18,077,257.88	-	18,077,257.88	18,014,476.77	(62,781.11)	18,014,476.77	11,587,831.43
941034AD2	20,442.00	-	20,442.00	16,601.98	(3,840.02)	16,601.98	13,630.00
94983CAJ6	(4.61)	-	(4.61)	-	4.61	-	-
94983YAQ2	4,572,023.01	-	4,572,023.01	4,458,425.60	(113,597.41)	4,458,425.60	4,319,656.40
DUCH1CLC4	1,109,569.70	-	1,109,569.70	-	(1,109,569.70)	-	3,433,329.60
Totals	\$ 915,728,029.86	\$ -	\$ 915,728,029.86	\$ 889,896,058.18	\$ (25,831,971.68)	\$ 889,896,058.18	\$ 673,462,492.71

The following is the impairment listing for loan-backed and structured securities for the three months ended June 30, 2010:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
007036FB7	\$ 506,308.31	\$ -	\$ 506,308.31	\$ 353,176.22	\$ (153,132.09)	\$ 353,176.22	\$ 375,826.24
007036GB6	254,269.21	-	254,269.21	255,648.66	1,379.45	255,648.66	517,632.44
02146QAB9	15,615,907.88	-	15,615,907.88	15,589,355.94	(26,551.94)	15,589,355.94	8,862,529.56
02639MAM8	2,523,018.60	-	2,523,018.60	2,430,740.45	(92,278.15)	2,430,740.45	7,168,920.00
02660TGN7	9,402,539.49	-	9,402,539.49	9,326,784.90	(75,754.59)	9,326,784.90	5,697,189.83
02660THT3	776,911.68	-	776,911.68	756,863.76	(20,047.92)	756,863.76	625,762.47
02660TJB0	25,226,004.23	-	25,226,004.23	25,127,415.69	(98,588.54)	25,127,415.69	13,651,622.67
02660WAC0	18,928,046.80	-	18,928,046.80	18,737,015.28	(191,031.52)	18,737,015.28	11,917,720.39
02660XAD6	13,917,317.42	-	13,917,317.42	13,760,235.52	(157,081.90)	13,760,235.52	8,037,153.38
026929AD1	9,915,586.21	-	9,915,586.21	9,608,012.45	(307,573.76)	9,608,012.45	5,712,241.06
040104QN4	4,369,066.86	-	4,369,066.86	4,328,678.79	(40,388.07)	4,328,678.79	3,590,532.48
05946XYP2	1,209,333.00	-	1,209,333.00	1,174,538.24	(34,794.76)	1,174,538.24	712,239.44
05949AHG8	5,673,610.00	-	5,673,610.00	5,542,818.30	(130,791.70)	5,542,818.30	5,513,028.70
05949ALH1	2,690,654.41	-	2,690,654.41	2,629,721.17	(60,933.24)	2,629,721.17	2,547,139.95
05949AZG8	2,070,443.86	-	2,070,443.86	2,034,655.86	(35,788.00)	2,034,655.86	2,055,226.03
05950DAA8	11,626,583.47	-	11,626,583.47	11,290,314.75	(336,268.72)	11,290,314.75	9,332,578.42
05950HAA9	23,693,004.00	-	23,693,004.00	23,141,186.59	(551,817.41)	23,141,186.59	21,985,696.99
06050HKY3	9,503.64	-	9,503.64	7,749.13	(1,754.51)	7,749.13	107,180.90
06652DAA7	7,169,884.57	-	7,169,884.57	7,081,292.54	(88,592.03)	7,081,292.54	4,403,738.16
07384MS60	2,767,075.46	-	2,767,075.46	2,744,790.96	(22,284.50)	2,744,790.96	2,468,965.02
07384YPP5	1,439,498.04	-	1,439,498.04	1,427,416.79	(12,081.25)	1,427,416.79	994,511.08
073854AB7	14,547,536.61	-	14,547,536.61	14,547,268.23	(268.38)	14,547,268.23	9,593,662.37
07386HCM1	410,475.68	-	410,475.68	410,433.82	(41.86)	410,433.82	717,764.47
07386HMB4	2,206,212.41	-	2,206,212.41	2,145,816.24	(60,396.17)	2,145,816.24	2,086,610.95
07386HNO0	1,169,143.68	-	1,169,143.68	1,138,098.65	(31,045.03)	1,138,098.65	1,120,711.53
07386HSP7	6,077,267.22	-	6,077,267.22	6,034,343.44	(42,923.78)	6,034,343.44	4,050,313.56
073879QF8	780,701.59	-	780,701.59	693,663.03	(87,038.56)	693,663.03	738,464.62
07820QAY1	16,108,296.95	-	16,108,296.95	15,376,997.11	(731,299.84)	15,376,997.11	11,890,461.34
12667FBJ3	2,103,346.28	-	2,103,346.28	2,024,597.73	(78,748.55)	2,024,597.73	1,854,457.95
12667GCB7	1,195,371.77	-	1,195,371.77	1,191,200.19	(4,171.58)	1,191,200.19	1,004,191.24
12667GME0	17,325,071.43	-	17,325,071.43	16,991,998.09	(333,073.34)	16,991,998.09	9,680,970.89
12667GR62	10,640,126.93	-	10,640,126.93	10,486,910.78	(153,216.15)	10,486,910.78	7,620,818.74
12667GRW5	629,260.22	-	629,260.22	572,770.13	(56,490.09)	572,770.13	381,768.44
12667GS20	14,572,605.05	-	14,572,605.05	14,373,064.89	(199,540.16)	14,373,064.89	8,512,118.07
12667GWF6	8,897,691.57	-	8,897,691.57	8,517,914.13	(379,777.44)	8,517,914.13	4,272,853.01
12667GYX5	1,082,911.40	-	1,082,911.40	1,077,219.96	(5,691.44)	1,077,219.96	1,123,147.89
12668A4B8	15,533,914.88	-	15,533,914.88	15,474,216.29	(59,698.59)	15,474,216.29	8,802,192.78
12668ACG8	4,356,285.62	-	4,356,285.62	4,309,198.33	(47,087.29)	4,309,198.33	3,763,154.21
12668ACY9	868,763.35	-	868,763.35	867,274.80	(1,488.55)	867,274.80	683,676.64
12668ACZ6	3,947,481.62	-	3,947,481.62	3,886,617.25	(60,864.37)	3,886,617.25	2,443,991.14
12668AEV3	12,695,114.86	-	12,695,114.86	12,478,946.20	(216,168.66)	12,478,946.20	8,251,505.28
12668AGW9	3,107,369.65	-	3,107,369.65	3,101,153.13	(6,216.52)	3,101,153.13	2,597,850.08
12668AVP7	7,795,129.40	-	7,795,129.40	7,710,857.18	(84,272.22)	7,710,857.18	5,193,835.03
12668BB77	25,925,996.12	-	25,925,996.12	25,497,768.88	(428,227.24)	25,497,768.88	15,727,296.84
126694YM4	3,515,131.96	-	3,515,131.96	3,471,228.69	(43,903.27)	3,471,228.69	2,117,464.43
12669B3B6	68,214.25	-	68,214.25	66,602.80	(1,611.45)	66,602.80	51,400.25
12669D3C0	453,249.42	-	453,249.42	353,922.19	(99,327.23)	353,922.19	263,386.11
12669EH33	215,121.06	-	215,121.06	210,774.42	(4,346.64)	210,774.42	201,438.70
12669FKR3	279,676.82	-	279,676.82	277,047.74	(2,629.08)	277,047.74	301,602.52
12669FW82	1,169,473.44	-	1,169,473.44	1,146,440.40	(23,033.04)	1,146,440.40	827,311.10

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12669FXR9	\$ 514,806.49	\$ -	\$ 514,806.49	\$ 501,446.89	\$ (13,359.60)	\$ 501,446.89	\$ 386,818.82
12669GKH3	13,531,928.86	-	13,531,928.86	13,130,558.67	(401,370.19)	13,130,558.67	9,553,324.53
12669GMS7	265,714.32	-	265,714.32	254,490.25	(11,224.07)	254,490.25	164,688.31
12669GRM5	3,116,727.52	-	3,116,727.52	3,005,357.24	(111,370.28)	3,005,357.24	1,846,875.23
12669GRQ6	8,208,780.53	-	8,208,780.53	7,895,004.10	(313,776.43)	7,895,004.10	5,315,178.31
12669GTV3	406,174.77	-	406,174.77	397,648.68	(8,526.09)	397,648.68	237,224.62
12669GUR0	3,897,655.17	-	3,897,655.17	3,790,370.36	(107,284.81)	3,790,370.36	2,290,779.49
12669GXW6	351,507.25	-	351,507.25	242,202.43	(109,304.82)	242,202.43	302,225.04
17307G3D8	(2,831.79)	-	(2,831.79)	136,992.27	139,824.06	136,992.27	560,952.38
17307GH76	169,958.43	-	169,958.43	169,980.47	22.04	169,980.47	272,520.48
17307GMQ8	5,854,785.11	-	5,854,785.11	5,610,286.82	(244,498.29)	5,610,286.82	5,720,968.02
17307GN79	9,961.84	-	9,961.84	9,740.23	(221.61)	9,740.23	21.27
17307GYD4	2,163,091.47	-	2,163,091.47	2,117,675.19	(45,416.28)	2,117,675.19	2,012,594.06
17309QAM6	2,231.78	-	2,231.78	2,045.33	(186.45)	2,045.33	8,518.50
22540V3F7	614,939.20	-	614,939.20	642,839.28	27,900.08	642,839.28	802,463.44
22540VGA4	1,141,469.95	-	1,141,469.95	1,031,537.18	(109,932.77)	1,031,537.18	985,574.79
22541NFL8	4,185,481.58	-	4,185,481.58	4,238,604.97	53,123.39	4,238,604.97	4,604,142.07
22541NUB3	1,133,961.51	-	1,133,961.51	1,081,132.81	(52,828.70)	1,081,132.81	1,568,255.10
22541Q4M1	174,571.43	-	174,571.43	174,967.62	396.19	174,967.62	635,650.80
22541QA44	798,759.12	-	798,759.12	517,358.63	(281,400.49)	517,358.63	519,951.58
22541QDA7	352,039.95	-	352,039.95	356,009.77	3,969.82	356,009.77	482,452.65
22541QFK3	130,407.84	-	130,407.84	132,038.88	1,631.04	132,038.88	270,560.57
22541QQR6	382,964.24	-	382,964.24	272,985.26	(109,978.98)	272,985.26	358,824.15
22541SJV1	1,057,682.99	-	1,057,682.99	1,018,477.92	(39,205.07)	1,018,477.92	1,096,086.72
225458RG5	1,992.31	-	1,992.31	312.85	(1,679.46)	312.85	61,487.86
225458UJ5	6,787,545.89	-	6,787,545.89	6,604,453.51	(183,092.38)	6,604,453.51	6,380,656.44
23245QAA7	2,439,694.46	-	2,439,694.46	2,401,175.93	(38,518.53)	2,401,175.93	1,513,637.22
23332UAC8	5,024,072.52	-	5,024,072.52	4,976,576.38	(47,496.14)	4,976,576.38	3,944,809.11
23332UAR5	9,032,091.21	-	9,032,091.21	8,941,930.52	(90,160.69)	8,941,930.52	6,452,561.01
23332UAS3	129,042.66	-	129,042.66	119,917.67	(9,124.99)	119,917.67	85,819.11
23332UBV5	5,973,723.07	-	5,973,723.07	5,899,242.77	(74,480.30)	5,899,242.77	3,415,484.67
23332UBW3	337,464.82	-	337,464.82	318,124.29	(19,340.53)	318,124.29	234,381.54
23332UCM4	576,823.93	-	576,823.93	570,846.02	(5,977.91)	570,846.02	370,446.09
23332UDU5	20,204,339.08	-	20,204,339.08	20,006,668.76	(197,670.32)	20,006,668.76	12,335,262.11
251510FB4	6,701,660.92	-	6,701,660.92	6,315,048.92	(386,612.00)	6,315,048.92	5,193,498.11
251510NB5	4,751,223.62	-	4,751,223.62	4,725,815.34	(25,408.28)	4,725,815.34	3,660,819.35
251510NC3	13,316,951.71	-	13,316,951.71	13,093,212.80	(223,738.91)	13,093,212.80	3,319,842.40
25151AAA9	5,678,742.53	-	5,678,742.53	5,510,894.90	(167,847.63)	5,510,894.90	3,340,211.88
30251YAB4	8,679,088.82	-	8,679,088.82	8,561,752.38	(117,336.44)	8,561,752.38	6,544,203.63
318340AB2	715,302.51	-	715,302.51	655,084.75	(60,217.76)	655,084.75	446,529.20
32051DCK6	513,662.86	-	513,662.86	510,570.16	(3,092.70)	510,570.16	513,940.90
32056CAH2	16,767,750.62	-	16,767,750.62	16,353,102.24	(414,648.38)	16,353,102.24	14,579,877.39
36185NXT2	812,739.52	-	812,739.52	724,971.02	(87,768.50)	724,971.02	517,197.87
36228FWU6	694,852.71	-	694,852.71	749,918.41	55,065.70	749,918.41	791,443.30
362341XE4	21,136,351.60	-	21,136,351.60	20,955,566.63	(180,784.97)	20,955,566.63	19,996,964.12
36242DBJ1	3,170,252.21	-	3,170,252.21	3,172,205.57	1,953.36	3,172,205.57	3,239,843.01
36242DBZ5	221,127.41	-	221,127.41	220,508.65	(618.76)	220,508.65	384,723.37
36242DGA5	26,686.51	-	26,686.51	25,556.13	(1,130.38)	25,556.13	65,810.87
362480AD7	15,306,913.54	-	15,306,913.54	14,574,735.22	(732,178.32)	14,574,735.22	7,560,686.39
39538RAB5	11,224,577.04	-	11,224,577.04	11,122,756.39	(101,820.65)	11,122,756.39	6,722,573.82
39538RBB4	12,902,584.04	-	12,902,584.04	12,756,707.71	(145,876.33)	12,756,707.71	7,503,703.19
39538WFH6	10,533,879.56	-	10,533,879.56	10,524,374.24	(9,505.32)	10,524,374.24	5,655,248.05
40431KAA8	121,802.54	-	121,802.54	114,791.99	(7,010.55)	114,791.99	111,007.64
41161PA86	1,742,333.74	-	1,742,333.74	1,710,310.67	(32,023.07)	1,710,310.67	1,468,274.23
41161PFR9	1,245,597.66	-	1,245,597.66	1,220,998.45	(24,599.21)	1,220,998.45	910,061.29
41161PHC0	7,878,255.67	-	7,878,255.67	7,809,346.73	(68,908.94)	7,809,346.73	5,473,551.13
41161PHU0	7,500,110.99	-	7,500,110.99	7,320,065.85	(180,045.14)	7,320,065.85	5,172,272.42
41161PKH5	592,949.88	-	592,949.88	569,082.74	(23,867.14)	569,082.74	358,108.55
41161PL43	20,595,562.12	-	20,595,562.12	19,672,347.51	(923,214.61)	19,672,347.51	12,528,065.18
41161PLR2	12,836,963.57	-	12,836,963.57	12,695,687.26	(141,276.31)	12,695,687.26	7,998,693.58
41161PMG5	15,744,794.38	-	15,744,794.38	15,582,186.39	(162,607.99)	15,582,186.39	10,014,326.46
41161PQU0	13,504,506.01	-	13,504,506.01	13,332,870.43	(171,635.58)	13,332,870.43	8,314,454.20
41161PTN3	2,260,140.25	-	2,260,140.25	2,212,892.84	(47,247.41)	2,212,892.84	1,368,737.99
41161PTP8	680,197.69	-	680,197.69	598,977.79	(81,219.90)	598,977.79	457,820.41
41161PWB5	7,354,902.36	-	7,354,902.36	7,268,594.83	(86,307.53)	7,268,594.83	4,269,594.44
41161PXH1	776,649.84	-	776,649.84	766,983.13	(9,666.71)	766,983.13	482,256.96
43739EAP2	19,692,319.83	-	19,692,319.83	19,508,136.31	(184,183.52)	19,508,136.31	13,873,164.06
43739EBJ5	9,184,578.52	-	9,184,578.52	9,114,977.67	(69,600.85)	9,114,977.67	6,852,275.05
43739EBS5	9,143,774.50	-	9,143,774.50	9,082,906.22	(60,868.28)	9,082,906.22	7,705,855.81
45254NHV2	332,389.41	-	332,389.41	313,830.68	(18,558.73)	313,830.68	265,469.93
45254NJG3	1,377,791.28	-	1,377,791.28	1,354,996.46	(22,794.82)	1,354,996.46	1,129,754.73
45254NJP3	152,018.01	-	152,018.01	140,003.86	(12,014.15)	140,003.86	129,263.01

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
45254NJV0	\$ 995,748.62	\$ -	\$ 995,748.62	\$ 988,034.44	\$ (7,714.18)	\$ 988,034.44	\$ 756,422.83
45254NUX6	216,997.26	-	216,997.26	216,470.47	(526.79)	216,470.47	258,370.87
45254NKA4	288,007.59	-	288,007.59	283,824.85	(4,182.74)	283,824.85	397,161.74
45254NKD8	4,163,419.14	-	4,163,419.14	4,127,893.53	(35,525.61)	4,127,893.53	3,969,187.94
45254NKF3	5,292,740.94	-	5,292,740.94	5,242,219.68	(50,521.26)	5,242,219.68	3,773,830.28
45254NKX4	6,353,961.96	-	6,353,961.96	6,306,017.08	(47,944.88)	6,306,017.08	4,304,014.72
45254NNP8	13,266,078.73	-	13,266,078.73	13,152,113.39	(113,965.34)	13,152,113.39	9,503,832.30
45254NPA9	15,520,191.56	-	15,520,191.56	15,475,441.54	(44,750.02)	15,475,441.54	12,262,190.30
45254NPG6	996,338.48	-	996,338.48	905,927.98	(90,410.50)	905,927.98	793,927.97
45254NPU5	5,533,130.64	-	5,533,130.64	5,491,689.68	(41,440.96)	5,491,689.68	3,980,838.30
45254TMK7	56,050.75	-	56,050.75	37,555.51	(18,495.24)	37,555.51	53,697.02
45254TRX4	353,067.87	-	353,067.87	343,129.92	(9,937.95)	343,129.92	231,170.18
45254TSM7	4,367,917.64	-	4,367,917.64	4,328,472.29	(39,445.35)	4,328,472.29	2,567,817.37
45660LCN7	5,472,177.70	-	5,472,177.70	5,390,194.71	(81,982.99)	5,390,194.71	3,620,366.97
45660LKW8	25,766,539.07	-	25,766,539.07	25,517,687.60	(248,851.47)	25,517,687.60	16,653,183.47
45660LW96	3,742,859.43	-	3,742,859.43	3,616,865.10	(125,994.33)	3,616,865.10	1,821,127.78
45660LWD7	3,092,990.17	-	3,092,990.17	3,063,168.12	(29,822.05)	3,063,168.12	3,064,126.77
45660LY94	710,081.02	-	710,081.02	664,588.51	(45,492.51)	664,588.51	436,301.78
45660LYW3	4,338,757.38	-	4,338,757.38	4,137,427.14	(201,330.24)	4,137,427.14	2,358,974.34
45660N2J3	4,759,368.30	-	4,759,368.30	4,704,783.71	(54,584.59)	4,704,783.71	3,829,197.67
45660N5H4	5,740,656.83	-	5,740,656.83	5,660,656.62	(80,000.21)	5,660,656.62	3,872,076.18
45660NQ24	2,238,734.56	-	2,238,734.56	2,225,202.60	(13,531.96)	2,225,202.60	2,147,664.58
45660NRB3	873,931.14	-	873,931.14	733,712.66	(140,218.48)	733,712.66	557,496.77
45660NS30	2,399,798.33	-	2,399,798.33	2,342,587.50	(57,210.83)	2,342,587.50	1,564,347.79
45660NT88	81,305.41	-	81,305.41	79,756.60	(1,548.81)	79,756.60	59,909.07
45660NT96	2,428,975.11	-	2,428,975.11	2,394,834.90	(34,140.21)	2,394,834.90	2,121,465.65
456612AC4	17,568,383.14	-	17,568,383.14	17,378,177.11	(190,206.03)	17,378,177.11	9,481,062.69
45664BAE7	1,352.25	-	1,352.25	61.25	(1,291.00)	61.25	12,563.89
45667WAA6	4,792,234.28	-	4,792,234.28	4,754,531.33	(37,702.95)	4,754,531.33	3,691,509.88
466247UG6	2,713,861.54	-	2,713,861.54	2,600,556.10	(113,305.44)	2,600,556.10	2,415,145.39
466247XE8	6,758,424.68	-	6,758,424.68	6,634,885.67	(123,539.01)	6,634,885.67	4,638,042.23
46627MBQ9	12,706,165.18	-	12,706,165.18	12,614,172.88	(91,992.30)	12,614,172.88	8,982,476.80
46627MCS4	7,769,242.62	-	7,769,242.62	7,627,593.60	(141,649.02)	7,627,593.60	5,761,375.34
46629QAR7	108.28	-	108.28	21.19	(87.09)	21.19	3,762.27
52520MFT5	18,990.36	-	18,990.36	16,017.61	(2,972.75)	16,017.61	127,323.98
525221EN3	13,613,792.66	-	13,613,792.66	13,586,358.28	(27,434.38)	13,586,358.28	6,517,575.94
525221JA6	20,387.82	-	20,387.82	19,195.43	(1,192.39)	19,195.43	133,769.18
52524YAF0	12,812,995.87	-	12,812,995.87	12,472,987.24	(340,008.63)	12,472,987.24	7,314,315.40
550279AA1	4,989,982.47	-	4,989,982.47	4,931,695.78	(58,286.69)	4,931,695.78	3,370,346.43
55027BAA6	15,758,456.37	-	15,758,456.37	15,758,002.47	(453.90)	15,758,002.47	8,858,836.88
576433FP6	484,938.56	-	484,938.56	233,015.00	(251,923.56)	233,015.00	198,404.69
576433G42	9,235,387.92	-	9,235,387.92	9,132,279.58	(103,108.34)	9,132,279.58	5,528,038.04
576433GW0	756,607.16	-	756,607.16	756,626.07	18.91	756,626.07	569,739.39
576433H33	5,052,309.49	-	5,052,309.49	4,998,219.91	(54,089.58)	4,998,219.91	4,077,712.18
576433NH5	1,747,988.73	-	1,747,988.73	1,715,411.82	(32,576.91)	1,715,411.82	1,402,150.68
576433RB4	291,347.44	-	291,347.44	291,445.42	97.98	291,445.42	216,017.14
576433YN0	1,243,677.58	-	1,243,677.58	1,219,560.07	(24,117.51)	1,219,560.07	786,894.23
576438AA3	3,837,541.95	-	3,837,541.95	3,741,135.74	(96,406.21)	3,741,135.74	3,178,843.42
576444AA1	1,501.36	-	1,501.36	532.47	(968.89)	532.47	-
5899293W6	629,606.67	-	629,606.67	610,744.13	(18,862.54)	610,744.13	903,352.32
589929E87	1,076,462.57	-	1,076,462.57	957,260.99	(119,201.58)	957,260.99	812,066.15
589929P69	257,235.55	-	257,235.55	281,204.89	23,969.34	281,204.89	399,641.63
589929X29	5,242,391.81	-	5,242,391.81	5,145,423.76	(96,968.05)	5,145,423.76	3,534,393.46
59020UQ40	1,299,053.15	-	1,299,053.15	1,281,103.74	(17,949.41)	1,281,103.74	957,851.97
59020UTL9	659,152.21	-	659,152.21	290,313.25	(368,838.96)	290,313.25	556,662.95
59020UXN0	94,656.80	-	94,656.80	94,491.32	(165.48)	94,491.32	249,777.75
59024WAF4	370,606.61	-	370,606.61	239,976.03	(130,630.58)	239,976.03	32,558.89
61915RAZ9	5,233.73	-	5,233.73	3,499.48	(1,734.25)	3,499.48	2,995.16
61915RBB1	7,459,436.65	-	7,459,436.65	7,370,236.70	(89,199.95)	7,370,236.70	4,686,101.70
61915RBZ8	910,109.87	-	910,109.87	884,772.79	(25,337.08)	884,772.79	535,030.15
65535VSQ2	919.60	-	919.60	75.11	(844.49)	75.11	1,239.35
65537BAG5	18,623.82	-	18,623.82	17,461.96	(1,161.86)	17,461.96	68,104.61
65538DAA3	3,462,554.95	-	3,462,554.95	3,368,116.41	(94,438.54)	3,368,116.41	2,437,872.57
68383NCA9	25,614,186.91	-	25,614,186.91	25,401,151.38	(213,035.53)	25,401,151.38	18,328,435.72
68383NCU5	9,697,732.73	-	9,697,732.73	9,616,220.52	(81,512.21)	9,616,220.52	6,663,549.29
68383NDT7	9,435,478.24	-	9,435,478.24	9,327,338.77	(108,139.47)	9,327,338.77	5,357,974.25
68389FBW3	30,268.83	-	30,268.83	30,006.94	(261.89)	30,006.94	26,585.98
68402CAC8	690,402.51	-	690,402.51	650,151.19	(40,251.32)	650,151.19	576,733.55
74927WAM6	21,742.29	-	21,742.29	438.25	(21,304.04)	438.25	5,999.54
74927XAM4	10,961.59	-	10,961.59	4,965.82	(5,995.77)	4,965.82	93.76
76110GUG4	2,151,906.35	-	2,151,906.35	2,011,776.12	(140,130.23)	2,011,776.12	1,477,484.29

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
76110GV40	\$ 3,511,988.44	\$ -	\$ 3,511,988.44	\$ 3,458,157.55	\$ (53,830.89)	\$ 3,458,157.55	\$ 3,144,514.14
76110GVT5	2,608,281.37	-	2,608,281.37	2,544,862.98	(63,418.39)	2,544,862.98	2,171,794.50
76110GWG2	1,904,669.72	-	1,904,669.72	1,846,585.94	(58,083.78)	1,846,585.94	1,480,379.93
76110GZR5	2,830,733.67	-	2,830,733.67	2,727,172.57	(103,561.10)	2,727,172.57	2,619,340.44
76110H4M8	173,901.94	-	173,901.94	178,199.70	4,297.76	178,199.70	226,198.30
76110HKX6	1,815,623.06	-	1,815,623.06	1,815,565.60	(57.46)	1,815,565.60	4,375,134.46
76110HKY4	96,706.90	-	96,706.90	107,840.00	11,133.10	107,840.00	456,938.64
761118FM5	10,258,764.81	-	10,258,764.81	10,107,369.93	(151,394.88)	10,107,369.93	8,649,658.14
761118KU1	7,864,281.28	-	7,864,281.28	7,763,351.40	(100,929.88)	7,763,351.40	4,722,642.75
761118NN4	10,865,451.55	-	10,865,451.55	10,713,286.05	(152,165.50)	10,713,286.05	6,664,737.32
761118RJ9	512,042.11	-	512,042.11	500,603.65	(11,438.46)	500,603.65	289,932.97
761118RM2	22,478,465.29	-	22,478,465.29	22,126,529.15	(351,936.14)	22,126,529.15	12,932,212.80
79549AYA1	1,391,036.96	-	1,391,036.96	1,237,797.08	(153,239.88)	1,237,797.08	771,127.21
79549AYB9	103,695.13	-	103,695.13	76,467.80	(27,227.33)	76,467.80	96,547.72
81744FJH1	280,763.95	-	280,763.95	278,042.85	(2,721.10)	278,042.85	186,558.02
863579DV7	861,077.80	-	861,077.80	502,212.89	(358,864.91)	502,212.89	223,282.96
863579KG2	3,564,434.40	-	3,564,434.40	3,458,836.41	(105,597.99)	3,458,836.41	2,675,888.50
863579YR3	8,639,569.03	-	8,639,569.03	8,548,863.56	(90,705.47)	8,548,863.56	5,886,140.24
86358HRL5	32,228.03	-	32,228.03	-	(32,228.03)	-	28,814.20
86358R3Q8	1,431,054.34	-	1,431,054.34	1,403,225.73	(27,828.61)	1,403,225.73	898,259.61
86358RA49	985,023.73	-	985,023.73	638,664.85	(346,358.88)	638,664.85	989,895.09
86358RLG0	176,593.47	-	176,593.47	39,864.17	(136,729.30)	39,864.17	135,590.97
86358RM46	418,806.87	-	418,806.87	350,865.15	(67,941.72)	350,865.15	136,985.95
86358RUM7	109,155.89	-	109,155.89	93,865.83	(15,290.06)	93,865.83	79,356.52
86358RUQ8	141,196.42	-	141,196.42	139,671.99	(1,524.43)	139,671.99	85,808.64
86359A5E9	264,596.43	-	264,596.43	263,564.52	(1,031.91)	263,564.52	216,159.86
86359ACD3	656,126.25	-	656,126.25	507,121.72	(149,004.53)	507,121.72	551,710.52
86359ADN0	1,073,524.85	-	1,073,524.85	774,365.98	(299,158.87)	774,365.98	730,270.87
86359AEH2	141,366.63	-	141,366.63	41,550.70	(99,815.93)	41,550.70	31,541.10
86359AHD8	452,608.99	-	452,608.99	443,236.83	(9,372.16)	443,236.83	339,586.43
86359AKY8	(10,547.00)	-	(10,547.00)	5,660.13	16,207.13	5,660.13	46,426.05
86359ANH2	1,458,172.13	-	1,458,172.13	1,432,403.29	(25,768.84)	1,432,403.29	1,725,769.10
86359AVY6	224,533.64	-	224,533.64	231,803.87	7,270.23	231,803.87	293,709.37
86359AXX6	1,066,811.06	-	1,066,811.06	1,134,333.93	67,522.87	1,134,333.93	1,542,683.19
86359AZE6	492,100.17	-	492,100.17	491,564.45	(535.72)	491,564.45	627,247.04
86359BLB5	1,494,987.65	-	1,494,987.65	1,451,142.79	(43,844.86)	1,451,142.79	1,346,410.99
86359LSM2	1,680,803.11	-	1,680,803.11	1,664,068.93	(16,734.18)	1,664,068.93	1,050,640.78
86360JAA9	12,930,329.94	-	12,930,329.94	12,800,678.74	(129,651.20)	12,800,678.74	7,004,562.45
86360JAN1	4,713,165.48	-	4,713,165.48	4,014,642.52	(698,522.96)	4,014,642.52	2,573,367.08
86363DAA9	11,413,218.57	-	11,413,218.57	11,310,432.42	(102,786.15)	11,310,432.42	7,023,081.39
885220FS7	8,572,565.34	-	8,572,565.34	8,438,322.89	(134,242.45)	8,438,322.89	7,843,984.83
929093AA0	1,252,834.30	-	1,252,834.30	935,033.68	(317,800.62)	935,033.68	338,058.07
929227EN2	213,179.95	-	213,179.95	179,569.89	(33,610.06)	179,569.89	186,736.90
92922F3L0	53,334,252.88	-	53,334,252.88	51,423,138.33	(1,911,114.55)	51,423,138.33	51,115,436.62
92922F4M7	4,958,037.02	-	4,958,037.02	4,916,637.79	(41,399.23)	4,916,637.79	3,817,204.07
92922F5T1	8,484,809.52	-	8,484,809.52	8,411,301.43	(73,508.09)	8,411,301.43	6,360,568.93
92922F7A0	1,420,576.36	-	1,420,576.36	808,359.63	(612,216.73)	808,359.63	1,144,308.11
92922F7Q5	11,030,151.81	-	11,030,151.81	10,921,009.73	(109,142.08)	10,921,009.73	8,015,966.71
92922FB72	1,382,053.83	-	1,382,053.83	1,369,454.62	(12,599.21)	1,369,454.62	906,685.01
92922FG77	12,404,165.49	-	12,404,165.49	11,857,723.25	(546,442.24)	11,857,723.25	11,581,387.02
92922FQ76	232,385.69	-	232,385.69	232,416.43	30.74	232,416.43	283,408.59
92922FTJ7	1,524,747.41	-	1,524,747.41	1,465,394.68	(59,352.73)	1,465,394.68	1,163,810.77
92922FW61	1,157,312.43	-	1,157,312.43	894,487.71	(262,824.72)	894,487.71	902,785.82
92922FWU8	4,575,811.82	-	4,575,811.82	4,488,437.15	(87,374.67)	4,488,437.15	3,857,829.43
92922FZF8	9,673,825.63	-	9,673,825.63	9,580,940.89	(92,884.74)	9,580,940.89	7,449,739.94
92925CBB7	4,956,363.66	-	4,956,363.66	4,911,005.27	(45,358.39)	4,911,005.27	3,398,387.13
939336PT4	14,209.95	-	14,209.95	16,868.38	2,658.43	16,868.38	112,136.25
939336U35	1,637,266.69	-	1,637,266.69	1,635,985.00	(1,281.69)	1,635,985.00	1,882,267.13
939336X65	12,911,420.23	-	12,911,420.23	12,785,497.61	(125,922.62)	12,785,497.61	10,330,075.25
939336Z48	4,607,693.45	-	4,607,693.45	4,598,787.92	(8,905.53)	4,598,787.92	4,206,622.82
93934FHC9	10,118,393.98	-	10,118,393.98	9,981,069.16	(137,324.82)	9,981,069.16	5,938,722.60
93934FJQ6	18,919,093.45	-	18,919,093.45	18,636,019.20	(283,074.25)	18,636,019.20	11,053,573.31
94981VAX5	1,102,785.13	-	1,102,785.13	1,100,448.27	(2,336.86)	1,100,448.27	1,126,312.93
94983CAJ6	19,370,475.51	-	19,370,475.51	19,266,207.62	(104,267.89)	19,266,207.62	19,366,567.05
94983TAE0	11,848,927.60	-	11,848,927.60	11,491,471.25	(357,456.35)	11,491,471.25	11,104,839.58
94983YAQ2	4,828,398.16	-	4,828,398.16	4,713,842.64	(114,555.52)	4,713,842.64	4,387,123.87
94985JAG5	18,581,530.31	-	18,581,530.31	18,550,313.82	(31,216.49)	18,550,313.82	16,633,773.80
Totals	\$ 1,362,887,892.31	\$ -	\$ 1,362,887,892.31	\$ 1,335,628,211.52	\$ (27,259,680.79)	\$ 1,335,628,211.52	\$ 975,241,505.93

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

The following is the impairment listing for loan-backed and structured securities for the three months ended March 31, 2010:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
007036FB7	\$ 2,453,688.48	\$ -	\$ 2,453,688.48	\$ 534,425.13	\$ (1,919,263.35)	\$ 534,425.13	\$ 349,508.39
007036FY7	24,525.31	-	24,525.31	16,981.28	(7,544.03)	16,981.28	16,756.74
007036GB6	452,415.25	-	452,415.25	302,370.50	(150,044.75)	302,370.50	325,127.38
02639MAK2	18,335,555.90	-	18,335,555.90	17,087,910.65	(1,247,645.25)	17,087,910.65	14,669,129.10
02660TBF9	1,933,645.37	-	1,933,645.37	610,617.59	(1,323,027.78)	610,617.59	1,427,102.41
02660TGN7	9,518,822.57	-	9,518,822.57	9,515,580.70	(3,241.87)	9,515,580.70	5,931,888.65
02660WAC0	19,504,543.37	-	19,504,543.37	19,015,978.26	(488,565.11)	19,015,978.26	11,965,232.87
02660XAD6	14,546,896.60	-	14,546,896.60	14,122,596.11	(424,300.49)	14,122,596.11	9,346,561.00
040104QN4	4,868,078.45	-	4,868,078.45	4,749,280.59	(118,797.86)	4,749,280.59	4,159,964.26
05946XYP2	1,263,430.72	-	1,263,430.72	1,241,498.36	(21,932.36)	1,241,498.36	740,046.66
05948JAA0	377,018.03	-	377,018.03	371,560.85	(5,457.18)	371,560.85	285,985.91
05949AHG8	5,864,012.59	-	5,864,012.59	5,792,053.62	(71,958.97)	5,792,053.62	5,548,665.42
05949ALH1	2,788,640.95	-	2,788,640.95	2,767,067.21	(21,573.74)	2,767,067.21	2,708,085.34
05949AZG8	2,250,828.83	-	2,250,828.83	2,139,506.99	(111,321.84)	2,139,506.99	2,104,144.70
05950DAA8	12,137,989.08	-	12,137,989.08	11,873,752.53	(264,236.55)	11,873,752.53	9,716,423.19
05950HAA9	24,333,569.53	-	24,333,569.53	24,069,760.37	(263,809.16)	24,069,760.37	22,103,331.00
06050HKX5	726,208.27	-	726,208.27	638,679.73	(87,528.54)	638,679.73	355,148.77
06050HKY3	291,082.57	-	291,082.57	11,643.40	(279,439.17)	11,643.40	92,176.41
06652DAA7	7,594,959.54	-	7,594,959.54	7,271,154.06	(323,805.48)	7,271,154.06	4,475,435.31
07384MS60	2,967,228.97	-	2,967,228.97	2,953,642.19	(13,586.78)	2,953,642.19	2,753,314.06
07384MSP8	652,279.17	-	652,279.17	249,054.64	(403,224.53)	249,054.64	458,090.20
07384YPP5	3,540,444.57	-	3,540,444.57	1,602,667.70	(1,937,776.87)	1,602,667.70	1,002,156.71
073854AB7	15,781,621.86	-	15,781,621.86	13,982,208.45	(1,799,413.41)	13,982,208.45	9,659,937.28
07386HCM1	1,057,528.53	-	1,057,528.53	420,552.03	(636,976.50)	420,552.03	707,317.87
07386HMB4	2,544,819.91	-	2,544,819.91	2,399,703.53	(145,116.38)	2,399,703.53	2,223,400.41
07386HSP7	6,373,744.64	-	6,373,744.64	6,231,520.21	(142,224.43)	6,231,520.21	4,264,113.53
073879QF8	1,052,690.23	-	1,052,690.23	810,912.07	(241,778.16)	810,912.07	616,584.28
073879Z92	11,621,639.60	-	11,621,639.60	9,616,279.93	(2,005,359.67)	9,616,279.93	4,585,041.57
07820QAY1	17,270,978.53	-	17,270,978.53	16,334,265.50	(936,713.03)	16,334,265.50	12,391,361.40
078446AB7	158,000.00	-	158,000.00	135,000.00	(23,000.00)	135,000.00	135,000.00
12479DAC2	14,814,472.13	-	14,814,472.13	10,481,540.76	(4,332,931.37)	10,481,540.76	12,623,166.27
12629EAK1	3,305.17	-	3,305.17	1,855.03	(1,450.14)	1,855.03	16,321.24
12638PAL3	85.45	-	85.45	55.07	(30.38)	55.07	245.24
12667FUL7	765,016.22	-	765,016.22	374,418.18	(390,598.04)	374,418.18	282,015.42
12667GCB7	1,247,773.59	-	1,247,773.59	1,244,766.76	(3,006.83)	1,244,766.76	1,006,637.33
12667GME0	17,856,951.29	-	17,856,951.29	17,358,021.50	(498,929.79)	17,358,021.50	10,010,579.82
12667GR62	11,553,888.87	-	11,553,888.87	11,077,060.04	(476,828.83)	11,077,060.04	7,783,552.02
12667GRW5	752,425.95	-	752,425.95	638,937.01	(113,488.94)	638,937.01	393,389.01
12667GS20	14,984,870.18	-	14,984,870.18	14,603,479.12	(381,391.06)	14,603,479.12	8,473,996.90
12667GWF6	9,314,884.23	-	9,314,884.23	8,899,557.04	(415,327.19)	8,899,557.04	4,449,607.75
12667GYX5	1,178,006.28	-	1,178,006.28	1,148,664.89	(29,341.39)	1,148,664.89	1,172,667.48
12668A3V5	5,302.70	-	5,302.70	3,250.28	(2,052.42)	3,250.28	31,126.84
12668ACG8	4,562,252.57	-	4,562,252.57	4,428,668.32	(133,584.25)	4,428,668.32	3,839,846.65
12668ACY9	930,532.21	-	930,532.21	918,663.59	(11,868.62)	918,663.59	725,290.39
12668ACZ6	3,972,862.43	-	3,972,862.43	3,957,478.64	(15,383.79)	3,957,478.64	2,521,691.24
12668AEV3	12,945,842.36	-	12,945,842.36	12,690,145.00	(255,697.36)	12,690,145.00	7,663,002.82
12668AGW9	3,165,426.49	-	3,165,426.49	3,150,569.66	(14,856.83)	3,150,569.66	2,826,591.59
12668AVP7	8,140,249.88	-	8,140,249.88	8,083,319.57	(56,930.31)	8,083,319.57	5,455,786.21
12668BDR1	7,725.61	-	7,725.61	6,239.02	(1,486.59)	6,239.02	53,236.48
126694F86	1,138.45	-	1,138.45	142.31	(996.14)	142.31	13,742.52
126694P36	769.13	-	769.13	744.38	(24.75)	744.38	11,289.62
126694YM4	3,648,371.76	-	3,648,371.76	3,622,223.00	(26,148.76)	3,622,223.00	2,047,117.51
126694YW2	2,948.00	-	2,948.00	2,380.73	(567.27)	2,380.73	264,800.08
126694ZD3	1,177.20	-	1,177.20	993.39	(183.81)	993.39	5,467.70
12669D3C0	486,730.56	-	486,730.56	454,969.05	(31,761.51)	454,969.05	262,534.26
12669EH33	242,081.18	-	242,081.18	241,168.56	(912.62)	241,168.56	235,448.53
12669FKR3	283,550.79	-	283,550.79	282,929.33	(621.46)	282,929.33	313,015.97
12669FW82	1,232,827.80	-	1,232,827.80	1,184,490.41	(48,337.39)	1,184,490.41	843,944.08
12669FXR9	617,953.10	-	617,953.10	581,117.30	(36,835.80)	581,117.30	452,538.83
12669GKH3	14,121,110.26	-	14,121,110.26	13,692,829.24	(428,281.02)	13,692,829.24	9,975,042.83
12669GMS7	286,281.76	-	286,281.76	276,320.63	(9,961.13)	276,320.63	175,183.45
12669GRM5	3,213,471.26	-	3,213,471.26	3,139,096.50	(74,374.76)	3,139,096.50	1,864,520.48
12669GRQ6	8,410,831.51	-	8,410,831.51	8,182,866.55	(227,964.96)	8,182,866.55	5,310,114.19
12669GTV3	413,035.72	-	413,035.72	405,784.70	(7,251.02)	405,784.70	243,793.15
12669GUR0	4,029,454.29	-	4,029,454.29	3,965,969.97	(63,484.32)	3,965,969.97	2,400,594.43
161551FD3	1,657,936.70	-	1,657,936.70	1,648,866.19	(9,070.51)	1,648,866.19	1,415,497.04
17307G3D8	1,915,753.19	-	1,915,753.19	461,733.62	(1,454,019.57)	461,733.62	611,605.45
17307GH76	371,250.73	-	371,250.73	186,799.35	(184,451.38)	186,799.35	267,832.05

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
17307GMQ8	\$ 6,168,397.65	\$ -	\$ 6,168,397.65	\$ 6,063,224.90	\$ (105,172.75)	\$ 6,063,224.90	\$ 6,045,450.00
17309MAF0	38,073.65	-	38,073.65	23,798.74	(14,274.91)	23,798.74	56,073.51
17309QAM6	3,000.00	-	3,000.00	2,231.78	(768.22)	2,231.78	7,518.00
17309RAM4	3,211.91	-	3,211.91	2,006.63	(1,205.28)	2,006.63	31,031.70
17309SAM2	1,221.18	-	1,221.18	913.99	(307.19)	913.99	1,923.72
17309YAK3	265.61	-	265.61	187.26	(78.35)	187.26	1,701.14
17310UAE2	3,101.60	-	3,101.60	2,218.10	(883.50)	2,218.10	38,559.49
22540V3F7	2,275,694.27	-	2,275,694.27	698,301.03	(1,577,393.24)	698,301.03	1,301,934.10
22540V5D0	77,142.36	-	77,142.36	21,137.83	(56,004.53)	21,137.83	73,827.51
22540VFZ0	1,681,559.50	-	1,681,559.50	1,604,721.05	(76,838.45)	1,604,721.05	1,436,228.70
22540VG71	165,343.82	-	165,343.82	162,283.63	(3,060.19)	162,283.63	148,378.53
22540VGA4	1,738,277.77	-	1,738,277.77	1,186,868.24	(551,409.53)	1,186,868.24	999,172.82
22540VQ70	1,122,283.72	-	1,122,283.72	1,010,057.39	(112,226.33)	1,010,057.39	653,088.97
22541NFL8	4,821,216.43	-	4,821,216.43	4,351,713.78	(469,502.65)	4,351,713.78	4,476,331.65
22541NMA4	1,398,837.57	-	1,398,837.57	1,330,802.93	(68,034.64)	1,330,802.93	1,058,995.73
22541NMB2	391,647.47	-	391,647.47	245,148.15	(146,499.32)	245,148.15	196,792.35
22541NTH2	114,360.35	-	114,360.35	19,467.53	(94,892.82)	19,467.53	65,910.45
22541NUB3	2,751,670.42	-	2,751,670.42	1,142,047.70	(1,609,622.72)	1,142,047.70	1,560,501.67
22541Q4M1	946,992.48	-	946,992.48	196,498.73	(750,493.75)	196,498.73	615,985.53
22541QA44	1,102,838.83	-	1,102,838.83	838,439.53	(264,399.30)	838,439.53	648,230.30
22541QDA7	893,231.21	-	893,231.21	400,784.87	(492,446.34)	400,784.87	542,856.12
22541QFK3	361,287.41	-	361,287.41	140,035.09	(221,252.32)	140,035.09	225,090.49
22541QQR6	1,031,789.48	-	1,031,789.48	389,761.48	(642,028.00)	389,761.48	349,545.67
22541SFL7	613.42	-	613.42	40.85	(572.57)	40.85	282.11
22541SJV1	3,709,003.03	-	3,709,003.03	1,069,449.76	(2,639,553.27)	1,069,449.76	1,089,416.14
22541SXR4	1,752,619.87	-	1,752,619.87	1,572,097.61	(180,522.26)	1,572,097.61	819,437.21
225458UJ5	7,110,466.01	-	7,110,466.01	7,074,122.95	(36,343.06)	7,074,122.95	6,641,529.32
225470R88	677,276.99	-	677,276.99	-	(677,276.99)	-	-
2254W0NK7	1,173,818.08	-	1,173,818.08	760,226.30	(413,591.78)	760,226.30	750,308.00
22943HAD8	11,922,928.16	-	11,922,928.16	11,833,184.00	(89,744.16)	11,833,184.00	6,567,975.00
23245QAA7	2,491,649.89	-	2,491,649.89	2,454,217.55	(37,432.34)	2,454,217.55	1,605,827.56
23332UAC8	5,477,058.53	-	5,477,058.53	5,076,677.70	(400,380.83)	5,076,677.70	4,133,497.96
23332UAR5	9,942,332.80	-	9,942,332.80	9,142,826.69	(799,506.11)	9,142,826.69	6,488,431.57
23332UAS3	176,471.15	-	176,471.15	131,790.31	(44,680.84)	131,790.31	79,869.39
23332UBG8	6,917,454.70	-	6,917,454.70	6,723,925.69	(193,529.01)	6,723,925.69	4,422,271.03
23332UBV5	6,463,303.41	-	6,463,303.41	6,155,042.41	(308,261.00)	6,155,042.41	3,652,777.34
23332UBW3	466,359.66	-	466,359.66	365,786.21	(100,573.45)	365,786.21	249,078.55
23332UCM4	620,141.55	-	620,141.55	596,863.72	(23,277.83)	596,863.72	393,036.85
23332UDU5	20,873,214.78	-	20,873,214.78	20,535,208.92	(338,005.86)	20,535,208.92	12,802,892.92
251510EH2	31,386,373.97	-	31,386,373.97	29,776,920.83	(1,609,453.14)	29,776,920.83	23,554,371.60
251510FB4	7,006,196.35	-	7,006,196.35	6,932,571.07	(73,625.28)	6,932,571.07	5,597,637.24
251510NB5	5,194,850.34	-	5,194,850.34	5,126,868.69	(67,981.65)	5,126,868.69	4,170,830.93
251510NC3	14,323,115.79	-	14,323,115.79	13,322,014.84	(1,001,100.95)	13,322,014.84	3,492,455.94
26441EAC5	251,750.00	-	251,750.00	198,750.00	(53,000.00)	198,750.00	225,000.00
30251YAB4	8,734,778.32	-	8,734,778.32	8,733,046.45	(1,731.87)	8,733,046.45	6,591,850.01
318340AB2	718,001.87	-	718,001.87	715,352.80	(2,649.07)	715,352.80	499,575.78
32051GZS7	6,893,588.46	-	6,893,588.46	6,639,958.44	(253,630.02)	6,639,958.44	6,128,064.02
32056CAH2	17,234,064.17	-	17,234,064.17	16,715,349.63	(518,714.54)	16,715,349.63	13,812,531.77
35952Z007	5,923,357.50	-	5,923,357.50	6,153,734.58	230,377.08	6,153,734.58	2,614,467.35
35952Z023	4,511,207.33	-	4,511,207.33	4,731,293.75	220,086.42	4,731,293.75	2,017,445.52
35952Z031	4,688,529.85	-	4,688,529.85	4,851,154.60	162,624.75	4,851,154.60	1,984,276.13
35952Z049	4,383,058.82	-	4,383,058.82	4,393,146.88	10,088.06	4,393,146.88	1,675,385.40
35952Z056	4,285,422.23	-	4,285,422.23	4,269,538.30	(15,883.93)	4,269,538.30	1,598,247.30
35952Z064	4,622,032.21	-	4,622,032.21	4,584,118.38	(37,913.83)	4,584,118.38	1,691,625.00
35952ZA06	12,498,712.41	-	12,498,712.41	12,575,211.46	76,499.05	12,575,211.46	4,485,745.61
35952ZA14	581,463.26	-	581,463.26	587,470.60	6,007.34	587,470.60	201,154.51
35952ZA22	891,667.03	-	891,667.03	893,126.09	1,459.06	893,126.09	311,226.52
36228F5R3	1,784,822.54	-	1,784,822.54	1,778,747.31	(6,075.23)	1,778,747.31	1,458,742.78
36228FWU6	1,556,604.65	-	1,556,604.65	823,352.71	(733,251.94)	823,352.71	812,440.43
362341XE4	22,425,896.22	-	22,425,896.22	22,368,539.44	(57,356.78)	22,368,539.44	21,086,283.99
36242D3Z4	36,379.87	-	36,379.87	15,591.36	(20,788.51)	15,591.36	37,656.00
36242DBJ1	3,438,269.83	-	3,438,269.83	3,420,420.30	(17,849.53)	3,420,420.30	3,500,314.50
36242DBZ5	429,175.02	-	429,175.02	225,117.23	(204,057.79)	225,117.23	295,550.48
36242DGA5	69,435.41	-	69,435.41	26,274.41	(43,161.00)	26,274.41	58,577.90
39538RAB5	11,623,755.02	-	11,623,755.02	11,432,435.14	(191,319.88)	11,432,435.14	7,057,154.77
39538RBB4	13,378,059.89	-	13,378,059.89	13,024,188.11	(353,871.78)	13,024,188.11	7,609,786.63
40430HCQ9	2,200.00	-	2,200.00	2,100.64	(99.36)	2,100.64	10,717.00
40431KAA8	149,189.31	-	149,189.31	142,514.17	(6,675.14)	142,514.17	133,381.48
40431RAN5	1,710.12	-	1,710.12	1,258.01	(452.11)	1,258.01	16,720.13
41161PA86	1,861,912.82	-	1,861,912.82	1,793,823.19	(68,089.63)	1,793,823.19	1,456,655.50
41161PHC0	8,480,233.29	-	8,480,233.29	8,047,261.87	(432,971.42)	8,047,261.87	5,713,154.60
41161PHU0	8,069,968.77	-	8,069,968.77	7,684,462.58	(385,506.19)	7,684,462.58	5,347,306.39

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
41161PKH5	\$ 658,084.51	\$ -	\$ 658,084.51	\$ 606,795.26	\$ (51,289.25)	\$ 606,795.26	\$ 372,600.09
41161PL43	20,523,288.84	-	20,523,288.84	20,419,930.24	(103,358.60)	20,419,930.24	12,781,885.31
41161PLR2	13,321,773.78	-	13,321,773.78	12,987,652.51	(334,121.27)	12,987,652.51	8,321,877.67
41161PMG5	16,048,389.29	-	16,048,389.29	15,731,418.89	(316,970.40)	15,731,418.89	9,998,660.91
41161PQU0	13,826,326.41	-	13,826,326.41	13,555,850.58	(270,475.83)	13,555,850.58	8,626,403.84
41161PSC8	14,528.64	-	14,528.64	14,033.60	(495.04)	14,033.60	124,376.82
41161PTN3	2,302,587.27	-	2,302,587.27	2,267,897.68	(34,689.59)	2,267,897.68	1,459,874.85
41161PTP8	743,972.74	-	743,972.74	667,587.10	(76,385.64)	667,587.10	462,175.37
41161PWB5	7,452,210.68	-	7,452,210.68	7,343,571.23	(108,639.45)	7,343,571.23	4,400,431.53
41161PXH1	832,815.67	-	832,815.67	806,920.48	(25,895.19)	806,920.48	523,731.19
43739EAP2	20,692,394.62	-	20,692,394.62	20,035,045.20	(657,349.42)	20,035,045.20	14,146,968.62
43739EBJ5	9,470,912.02	-	9,470,912.02	9,396,575.94	(74,336.08)	9,396,575.94	7,270,684.58
43739EBS5	9,390,295.34	-	9,390,295.34	9,389,284.23	(1,011.11)	9,389,284.23	7,607,314.18
45254NHV2	341,137.23	-	341,137.23	339,614.90	(1,522.33)	339,614.90	116,101.73
45254NJG3	1,424,847.27	-	1,424,847.27	1,419,982.71	(4,864.56)	1,419,982.71	999,106.62
45254NVJ0	1,051,000.26	-	1,051,000.26	1,018,268.36	(32,731.90)	1,018,268.36	739,380.20
45254NJB6	231,656.42	-	231,656.42	225,351.66	(6,304.76)	225,351.66	226,639.33
45254NKA4	331,844.54	-	331,844.54	318,869.14	(12,975.40)	318,869.14	283,301.03
45254NKD8	4,272,196.68	-	4,272,196.68	4,241,554.76	(30,641.92)	4,241,554.76	4,079,501.13
45254NKF3	5,411,268.71	-	5,411,268.71	5,375,358.55	(35,910.16)	5,375,358.55	3,907,449.03
45254NKX4	6,445,811.39	-	6,445,811.39	6,424,443.63	(21,367.76)	6,424,443.63	4,379,416.71
45254NNP8	14,083,007.01	-	14,083,007.01	13,666,815.37	(416,191.64)	13,666,815.37	9,121,771.55
45254NPA9	15,940,578.75	-	15,940,578.75	15,933,131.06	(7,447.69)	15,933,131.06	12,708,722.73
45254NPG6	1,175,882.71	-	1,175,882.71	1,157,848.67	(18,034.04)	1,157,848.67	738,933.65
45254NPU5	5,653,762.95	-	5,653,762.95	5,641,300.15	(12,462.80)	5,641,300.15	3,776,426.59
45254TMK7	130,530.47	-	130,530.47	62,513.91	(68,016.56)	62,513.91	54,380.80
45254TRX4	357,025.60	-	357,025.60	356,784.07	(241.53)	356,784.07	245,781.75
45254TSM7	4,512,352.74	-	4,512,352.74	4,462,272.27	(50,080.47)	4,462,272.27	2,348,642.95
45660LCN7	6,176,052.77	-	6,176,052.77	5,616,319.65	(559,733.12)	5,616,319.65	3,703,076.80
45660LKW8	26,921,535.01	-	26,921,535.01	26,267,530.99	(654,004.02)	26,267,530.99	15,970,287.96
45660LNB1	317,976.95	-	317,976.95	190,647.02	(127,329.93)	190,647.02	231,828.20
45660LW96	3,873,134.29	-	3,873,134.29	3,780,548.16	(92,586.13)	3,780,548.16	2,275,316.34
45660LWD7	3,519,060.59	-	3,519,060.59	3,203,246.84	(315,813.75)	3,203,246.84	3,190,219.08
45660LYW3	4,523,469.44	-	4,523,469.44	4,414,090.05	(109,379.39)	4,414,090.05	2,583,596.05
45660N2J3	5,481,285.28	-	5,481,285.28	4,983,344.33	(497,940.95)	4,983,344.33	4,233,633.23
45660N2Y0	1,851,786.83	-	1,851,786.83	1,737,903.11	(113,883.72)	1,737,903.11	1,309,299.43
45660N3S2	5,620,388.09	-	5,620,388.09	5,556,993.78	(63,394.31)	5,556,993.78	3,925,153.28
45660N5H4	6,500,812.68	-	6,500,812.68	5,938,529.30	(562,283.38)	5,938,529.30	4,306,102.61
45660NKM6	3,259,208.05	-	3,259,208.05	2,423,843.32	(835,364.73)	2,423,843.32	2,151,896.13
45660NRB3	943,200.26	-	943,200.26	898,173.23	(45,027.03)	898,173.23	552,152.31
45660NS30	2,728,972.76	-	2,728,972.76	2,537,015.63	(191,957.13)	2,537,015.63	2,079,122.13
45660NT88	98,741.40	-	98,741.40	82,300.74	(16,440.66)	82,300.74	56,178.65
45660NT96	2,966,466.70	-	2,966,466.70	2,475,717.93	(490,748.77)	2,475,717.93	2,182,358.43
45660NZY4	826,721.67	-	826,721.67	687,642.66	(139,079.01)	687,642.66	516,762.10
456612AC4	18,542,321.13	-	18,542,321.13	18,024,907.82	(517,413.31)	18,024,907.82	10,088,170.91
45664BAE7	13,458.26	-	13,458.26	4,435.04	(9,023.22)	4,435.04	41,190.31
45667WAA6	5,049,794.60	-	5,049,794.60	5,021,704.07	(28,090.53)	5,021,704.07	3,803,838.41
466247UG6	2,981,863.38	-	2,981,863.38	2,882,213.62	(99,649.76)	2,882,213.62	2,593,603.01
466247XE8	7,074,433.96	-	7,074,433.96	6,920,733.77	(153,700.19)	6,920,733.77	4,953,603.90
46627MBQ9	13,368,456.37	-	13,368,456.37	13,182,036.89	(186,419.48)	13,182,036.89	9,580,139.68
46627MCS4	8,472,873.62	-	8,472,873.62	8,133,786.63	(339,086.99)	8,133,786.63	6,414,399.53
46629NAC7	144,599.24	-	144,599.24	77,491.69	(67,107.55)	77,491.69	56,704.87
46629QAR7	2,842.18	-	2,842.18	764.50	(2,077.68)	764.50	26,563.93
52520MFT5	38,001.03	-	38,001.03	37,095.72	(905.31)	37,095.72	205,939.54
525221CD7	515,379.55	-	515,379.55	289,031.50	(226,348.05)	289,031.50	80,934.70
52524YAF0	13,024,286.55	-	13,024,286.55	13,020,306.86	(3,979.69)	13,020,306.86	7,273,658.02
550279AA1	5,306,767.28	-	5,306,767.28	5,254,113.84	(52,653.44)	5,254,113.84	3,648,868.38
576429AL8	6,301.40	-	6,301.40	5,234.12	(1,067.28)	5,234.12	33,682.30
576433FP6	716,739.85	-	716,739.85	486,587.08	(230,152.77)	486,587.08	212,634.61
576433G42	9,591,132.34	-	9,591,132.34	9,403,432.27	(187,700.07)	9,403,432.27	5,740,942.78
576433GW0	1,554,838.72	-	1,554,838.72	774,679.26	(780,159.46)	774,679.26	572,154.49
576433H33	5,213,449.39	-	5,213,449.39	5,195,623.86	(17,825.53)	5,195,623.86	4,128,411.32
576433NH5	3,600,549.02	-	3,600,549.02	1,903,270.80	(1,697,278.22)	1,903,270.80	2,129,474.94
576433RB4	421,472.25	-	421,472.25	302,879.08	(118,593.17)	302,879.08	215,175.63
576433RU2	2,312,081.73	-	2,312,081.73	1,593,962.25	(718,119.48)	1,593,962.25	885,300.00
576433SE7	1,861,655.69	-	1,861,655.69	1,543,097.40	(318,558.29)	1,543,097.40	438,060.00
576433YN0	1,262,205.21	-	1,262,205.21	1,251,445.49	(10,759.72)	1,251,445.49	805,332.60
576438AA3	3,925,515.20	-	3,925,515.20	3,902,606.39	(22,908.81)	3,902,606.39	3,286,650.99
5899292N7	1,522,447.66	-	1,522,447.66	1,503,401.34	(19,046.32)	1,503,401.34	1,455,741.23
5899293W6	1,784,380.45	-	1,784,380.45	617,292.39	(1,167,088.06)	617,292.39	949,360.02
589929E87	1,242,613.94	-	1,242,613.94	1,094,053.32	(148,560.62)	1,094,053.32	809,262.50
589929P69	433,674.00	-	433,674.00	352,359.20	(81,314.80)	352,359.20	425,853.21

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
59020UNZ4	\$ 1,736,038.67	\$ -	\$ 1,736,038.67	\$ 1,723,668.92	\$ (12,369.75)	\$ 1,723,668.92	\$ 1,724,516.49
59020UQ40	1,352,319.19	-	1,352,319.19	1,333,846.58	(18,472.61)	1,333,846.58	871,546.92
59020UQ57	3,592,488.79	-	3,592,488.79	3,408,400.05	(184,088.74)	3,408,400.05	1,938,560.00
59020UTL9	1,060,471.51	-	1,060,471.51	658,719.06	(401,752.45)	658,719.06	573,387.99
59020UXN0	289,340.55	-	289,340.55	126,115.57	(163,224.98)	126,115.57	254,370.00
61748HAQ4	5,573,135.65	-	5,573,135.65	5,562,456.05	(10,679.60)	5,562,456.05	4,924,270.14
61753VAG7	960.00	-	960.00	848.91	(111.09)	848.91	2,949.59
61913PAA0	13,098,828.03	-	13,098,828.03	12,912,275.51	(186,552.52)	12,912,275.51	11,854,655.64
61915RAZ9	48,759.04	-	48,759.04	37,045.05	(11,713.99)	37,045.05	22,629.77
61915RBB1	7,685,200.98	-	7,685,200.98	7,558,357.46	(126,843.52)	7,558,357.46	4,904,245.07
65535VSQ2	4,518.45	-	4,518.45	2,304.97	(2,213.48)	2,304.97	11,382.53
65537BAG5	22,246.12	-	22,246.12	21,490.86	(755.26)	21,490.86	103,211.15
669884AF5	8,312.44	-	8,312.44	7,437.24	(875.20)	7,437.24	21,019.50
68383NCA9	26,151,132.42	-	26,151,132.42	26,085,936.31	(65,196.11)	26,085,936.31	18,722,090.34
68383NCD3	2,889,050.10	-	2,889,050.10	2,849,200.43	(39,849.67)	2,849,200.43	1,217,631.00
68383NCU5	10,531,155.88	-	10,531,155.88	9,957,837.67	(573,318.21)	9,957,837.67	7,136,628.79
68383NDT7	9,550,897.44	-	9,550,897.44	9,525,644.58	(25,252.86)	9,525,644.58	5,275,114.07
68389FBW3	31,717.29	-	31,717.29	30,640.63	(1,076.66)	30,640.63	26,629.59
68402CAC8	750,875.46	-	750,875.46	718,864.26	(32,011.20)	718,864.26	653,561.78
74927XAM4	136,826.02	-	136,826.02	64,143.68	(72,682.34)	64,143.68	245,182.35
76110H4M8	256,753.13	-	256,753.13	210,142.48	(46,610.65)	210,142.48	242,456.12
76110H5C9	302,454.33	-	302,454.33	204,912.70	(97,541.63)	204,912.70	224,082.66
76110HKX6	6,068,563.83	-	6,068,563.83	1,941,095.71	(4,127,468.12)	1,941,095.71	4,327,769.07
76110HKY4	480,547.48	-	480,547.48	138,009.92	(342,537.56)	138,009.92	465,514.66
76110W4J2	4,260.41	-	4,260.41	4,211.63	(48.78)	4,211.63	19,925.20
761118FM5	10,791,534.20	-	10,791,534.20	10,527,879.12	(263,655.08)	10,527,879.12	7,898,244.78
761118KU1	8,313,017.07	-	8,313,017.07	8,048,351.68	(264,665.39)	8,048,351.68	4,983,812.76
761118NN4	11,285,348.26	-	11,285,348.26	10,982,282.46	(303,065.80)	10,982,282.46	6,908,850.47
761118RJ9	551,317.20	-	551,317.20	522,283.81	(29,033.39)	522,283.81	290,388.31
761118RM2	23,852,735.80	-	23,852,735.80	22,619,711.71	(1,233,024.09)	22,619,711.71	13,131,342.93
76112BN55	9,452.31	-	9,452.31	8,493.47	(958.84)	8,493.47	16,316.20
79549AYA1	1,661,474.21	-	1,661,474.21	1,430,138.58	(231,335.63)	1,430,138.58	776,829.25
79549AYB9	180,937.10	-	180,937.10	111,626.96	(69,310.14)	111,626.96	96,885.98
81744FDK0	2,290,812.89	-	2,290,812.89	2,269,364.54	(21,448.35)	2,269,364.54	2,049,193.36
84752CAE7	1,727,986.23	-	1,727,986.23	1,653,665.61	(74,320.62)	1,653,665.61	770,148.18
863579KG2	3,863,876.32	-	3,863,876.32	3,795,231.53	(68,644.79)	3,795,231.53	2,581,451.16
863579YR3	9,253,862.38	-	9,253,862.38	8,966,225.84	(287,636.54)	8,966,225.84	6,337,919.78
86358HQW2	18,647.07	-	18,647.07	11,537.27	(7,109.80)	11,537.27	170,667.90
86358RLG0	420,315.74	-	420,315.74	235,746.42	(184,569.32)	235,746.42	262,713.28
86358RSJ7	70,965.43	-	70,965.43	2,839.73	(68,125.70)	2,839.73	22,217.30
86358RUM7	141,829.45	-	141,829.45	109,529.72	(32,299.73)	109,529.72	80,998.92
86358RZC4	249,395.06	-	249,395.06	44,686.59	(204,708.47)	44,686.59	148,614.08
86359A5E9	378,734.74	-	378,734.74	269,582.81	(109,151.93)	269,582.81	214,794.57
86359ADN0	1,103,130.42	-	1,103,130.42	1,072,622.59	(30,507.83)	1,072,622.59	353,240.00
86359AHD8	481,419.23	-	481,419.23	449,620.06	(31,799.17)	449,620.06	352,322.46
86359AKY8	52,679.87	-	52,679.87	17,941.14	(34,738.73)	17,941.14	45,457.03
86359ANH2	1,527,343.89	-	1,527,343.89	1,488,638.16	(38,705.73)	1,488,638.16	1,376,807.19
86359AVY6	422,371.44	-	422,371.44	267,085.31	(155,286.13)	267,085.31	305,827.09
86359AXX6	2,763,277.51	-	2,763,277.51	1,351,109.47	(1,412,168.04)	1,351,109.47	2,373,641.41
86359AZE6	965,347.87	-	965,347.87	496,906.29	(468,441.58)	496,906.29	759,943.49
86359BU82	53,701.78	-	53,701.78	19,190.81	(34,510.97)	19,190.81	9,535.84
86359DUV7	59,401.60	-	59,401.60	33,520.99	(25,880.61)	33,520.99	50,754.19
86360JAA9	12,974,684.64	-	12,974,684.64	12,890,442.62	(84,242.02)	12,890,442.62	6,524,355.67
86360JAN1	4,811,749.07	-	4,811,749.07	4,725,086.83	(86,662.24)	4,725,086.83	2,678,749.74
86361EAM3	3,284.60	-	3,284.60	1,110.83	(2,173.77)	1,110.83	9,061.02
86361EAP6	222.83	-	222.83	12.38	(210.45)	12.38	1,001.48
86361HAZ7	3,464.37	-	3,464.37	3,388.30	(76.07)	3,388.30	28,500.00
86361HBA1	505.52	-	505.52	498.47	(7.05)	498.47	3,808.06
87222EAJ7	13,908.37	-	13,908.37	9,125.69	(4,782.68)	9,125.69	32,841.49
885220FS7	8,959,281.99	-	8,959,281.99	8,834,441.37	(124,840.62)	8,834,441.37	7,735,453.82
89789KAC9	5,349.85	-	5,349.85	5,037.02	(312.83)	5,037.02	25,650.00
929093AA0	1,597,428.30	-	1,597,428.30	1,268,426.46	(329,001.84)	1,268,426.46	417,820.03
929227EN2	362,543.40	-	362,543.40	220,081.19	(142,462.21)	220,081.19	205,190.99
929227XH4	330,035.94	-	330,035.94	108,846.51	(221,189.43)	108,846.51	309,717.42
92922F3L0	54,962,013.73	-	54,962,013.73	53,117,955.74	(1,844,057.99)	53,117,955.74	45,994,942.12
92922F4M7	5,050,741.75	-	5,050,741.75	5,034,693.02	(16,048.73)	5,034,693.02	3,904,442.75
92922F5T1	8,676,171.03	-	8,676,171.03	8,643,649.97	(32,521.06)	8,643,649.97	6,654,817.86
92922F7A0	1,720,425.53	-	1,720,425.53	1,411,799.08	(308,626.45)	1,411,799.08	1,117,432.55
92922F7Q5	11,539,892.29	-	11,539,892.29	11,245,157.66	(294,734.63)	11,245,157.66	8,223,180.13
92922FB72	1,439,734.90	-	1,439,734.90	1,418,949.88	(20,785.02)	1,418,949.88	908,092.62
92922FD21	1,279,734.74	-	1,279,734.74	1,279,450.92	(283.82)	1,279,450.92	1,400,419.08
92922FD47	10,872,612.85	-	10,872,612.85	10,413,753.66	(458,859.19)	10,413,753.66	8,790,572.67

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
92922FG77	\$ 12,617,711.34	\$ -	\$ 12,617,711.34	\$ 12,291,484.84	\$ (326,226.50)	\$ 12,291,484.84	\$ 11,366,981.64
92922FJ25	7,421,446.36	-	7,421,446.36	7,410,294.13	(11,152.23)	7,410,294.13	5,642,228.79
92922FQ76	387,249.10	-	387,249.10	259,480.43	(127,768.67)	259,480.43	273,547.29
92922FTJ7	1,639,831.47	-	1,639,831.47	1,553,417.00	(86,414.47)	1,553,417.00	1,119,887.92
92922FU48	7,363,473.60	-	7,363,473.60	7,011,050.80	(352,422.80)	7,011,050.80	6,577,987.03
92922FW61	1,535,445.95	-	1,535,445.95	1,327,639.87	(207,806.08)	1,327,639.87	976,050.54
92922FWU8	4,811,650.60	-	4,811,650.60	4,670,390.57	(141,260.03)	4,670,390.57	3,243,919.64
92922FZF8	10,313,637.83	-	10,313,637.83	9,963,719.10	(349,918.73)	9,963,719.10	7,467,303.34
92925CBB7	5,120,972.13	-	5,120,972.13	5,058,558.70	(62,413.43)	5,058,558.70	3,535,425.05
92926SAE6	3,145,965.68	-	3,145,965.68	3,076,277.60	(69,688.08)	3,076,277.60	2,573,226.72
939336PT4	65,679.94	-	65,679.94	21,740.28	(43,939.66)	21,740.28	61,496.95
939336U35	1,758,275.27	-	1,758,275.27	1,720,040.22	(38,235.05)	1,720,040.22	1,819,234.99
939336X65	13,683,876.25	-	13,683,876.25	13,145,344.03	(538,532.22)	13,145,344.03	10,412,104.84
93934FHC9	10,339,448.82	-	10,339,448.82	10,120,432.78	(219,016.04)	10,120,432.78	6,211,494.25
93934FJQ6	19,266,145.77	-	19,266,145.77	19,003,975.87	(262,169.90)	19,003,975.87	11,360,421.15
93936JAM4	1,729.01	-	1,729.01	864.51	(864.50)	864.51	61,379.90
941034AD2	177,180.98	-	177,180.98	30,720.60	(146,460.38)	30,720.60	105,720.00
949775AC4	432,117.73	-	432,117.73	300,304.89	(131,812.84)	300,304.89	424,486.03
94981VAX5	1,180,397.18	-	1,180,397.18	1,173,574.31	(6,822.87)	1,173,574.31	1,175,928.82
94983CAJ6	20,750,754.03	-	20,750,754.03	20,056,492.24	(694,261.79)	20,056,492.24	20,004,332.78
94983EAH6	16,321,489.18	-	16,321,489.18	16,165,384.72	(156,104.46)	16,165,384.72	13,381,991.09
94983TAE0	12,465,453.87	-	12,465,453.87	12,376,506.12	(88,947.75)	12,376,506.12	11,193,989.73
94983YAQ2	5,185,412.71	-	5,185,412.71	4,872,833.42	(312,579.29)	4,872,833.42	4,438,067.58
L26479NN8	1,237,993.81	-	1,237,993.81	190,460.58	(1,047,533.23)	190,460.58	2,537,166.84
Totals	\$ 1,471,905,695.71	\$ -	\$ 1,471,905,695.71	\$ 1,391,337,542.96	\$ (80,568,152.75)	\$ 1,391,337,542.96	\$ 1,015,645,802.04

The following is the impairment listing for loan-backed and structured securities for the three months ended December 31, 2009:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00075WAB5	\$ 392,914.51	\$ -	\$ 392,914.51	\$ 396,890.58	\$ 3,976.07	\$ 396,890.58	\$ 390,925.02
004375CT6	9,408,193.30	-	9,408,193.30	8,562,534.09	(845,659.21)	8,562,534.09	4,783,498.94
00442GAD2	2,437,254.26	-	2,437,254.26	2,602,501.89	165,247.63	2,602,501.89	2,810,710.02
00442KAD3	4,412,473.61	-	4,412,473.61	4,278,160.00	(134,313.61)	4,278,160.00	3,239,750.54
007034AQ4	7,630,054.96	-	7,630,054.96	7,276,503.83	(353,551.13)	7,276,503.83	5,818,807.85
007036CE4	27,673.33	-	27,673.33	20,400.00	(7,273.33)	20,400.00	50,000.00
007036FB7	2,492,010.21	-	2,492,010.21	2,428,083.06	(63,927.15)	2,428,083.06	342,330.05
007036FY7	46,375.37	-	46,375.37	28,660.50	(17,714.87)	28,660.50	16,435.98
007036GB6	1,099,285.00	-	1,099,285.00	485,536.41	(613,748.59)	485,536.41	334,979.48
007037BK9	1,155,650.78	-	1,155,650.78	2,329,100.40	1,173,449.62	2,329,100.40	2,348,442.68
02146QAB9	16,240,391.54	-	16,240,391.54	16,015,900.25	(224,491.29)	16,015,900.25	9,877,931.55
02146TAQ0	18,632,146.52	-	18,632,146.52	18,310,000.00	(322,146.52)	18,310,000.00	16,689,902.25
02146YAD8	24,373,978.67	-	24,373,978.67	24,025,206.43	(348,772.24)	24,025,206.43	15,110,724.55
02147CAA1	10,872,095.79	-	10,872,095.79	10,865,188.19	(6,907.60)	10,865,188.19	6,604,821.67
02147DAB7	13,298,121.74	-	13,298,121.74	13,109,767.02	(188,354.72)	13,109,767.02	7,654,768.27
02147DAV3	2,278,949.00	-	2,278,949.00	2,659,475.64	380,526.64	2,659,475.64	1,973,882.50
02150MAB1	15,971,550.45	-	15,971,550.45	15,530,800.00	(440,750.45)	15,530,800.00	10,502,951.56
02660CAH3	679,469.69	-	679,469.69	321,326.38	(358,143.31)	321,326.38	235,266.88
02660TGN7	10,110,253.97	-	10,110,253.97	10,120,160.05	9,906.08	10,120,160.05	5,690,126.55
02660THA4	46,875.57	-	46,875.57	24,528.00	(22,347.57)	24,528.00	46,199.66
02660THL0	2,025,163.17	-	2,025,163.17	1,930,386.02	(94,777.15)	1,930,386.02	1,187,872.53
02660THT3	858,211.34	-	858,211.34	850,081.22	(8,130.12)	850,081.22	619,923.02
026929AD1	10,298,954.58	-	10,298,954.58	10,276,184.27	(22,770.31)	10,276,184.27	5,997,805.45
040104QN4	5,462,960.22	-	5,462,960.22	5,226,483.12	(236,477.10)	5,226,483.12	4,367,234.37
040104RV5	3,393,536.86	-	3,393,536.86	3,270,607.13	(122,929.73)	3,270,607.13	2,293,163.73
040104TF8	246,802.64	-	246,802.64	198,581.55	(48,221.09)	198,581.55	88,737.21
040104TG6	1,456,597.13	-	1,456,597.13	1,425,744.54	(30,852.59)	1,425,744.54	1,064,187.77
04012XAC9	586,310.20	-	586,310.20	319,925.46	(266,384.74)	319,925.46	216,293.42
05946XYB3	101,049.09	-	101,049.09	78,147.33	(22,901.76)	78,147.33	99,674.88
05948XPR6	2,082,465.13	-	2,082,465.13	557,100.77	(1,525,364.36)	557,100.77	1,231,958.53
05948XR52	474,971.01	-	474,971.01	91,470.39	(383,500.62)	91,470.39	188,272.14
05948XVH1	1,497,402.87	-	1,497,402.87	306,092.32	(1,191,310.55)	306,092.32	528,786.24
05948XVJ7	875,432.60	-	875,432.60	59,070.79	(816,361.81)	59,070.79	194,455.04
05949ALH1	2,910,262.88	-	2,910,262.88	2,855,947.26	(54,315.62)	2,855,947.26	2,746,262.47
05949AZG8	2,582,766.65	-	2,582,766.65	2,576,970.81	(5,795.84)	2,576,970.81	2,207,564.74
05950DAA8	12,267,524.43	-	12,267,524.43	12,223,571.80	(43,952.63)	12,223,571.80	9,373,865.03
07325VAG9	2,691,014.91	-	2,691,014.91	2,754,647.19	63,632.28	2,754,647.19	2,386,917.47
07384YNU1	1,567,883.79	-	1,567,883.79	1,456,356.93	(111,526.86)	1,456,356.93	1,508,651.85

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
07384YPP5	\$ 4,596,090.24	\$ -	\$ 4,596,090.24	\$ 3,674,174.67	\$ (921,915.57)	\$ 3,674,174.67	\$ 999,108.79
073852AD7	2,164,167.52	-	2,164,167.52	1,934,225.00	(229,942.52)	1,934,225.00	1,185,850.00
07386HCM1	1,410,030.52	-	1,410,030.52	1,056,536.60	(353,493.92)	1,056,536.60	706,759.77
07386HCP4	184,720.16	-	184,720.16	39,486.65	(145,233.51)	39,486.65	69,911.61
07386HEN7	795,472.39	-	795,472.39	82,841.96	(712,630.43)	82,841.96	167,872.33
07386HHW4	28,412.44	-	28,412.44	23,711.51	(4,700.93)	23,711.51	118,363.69
07386HJL6	383,091.71	-	383,091.71	153,449.10	(229,642.61)	153,449.10	282,792.72
07386HLU3	9,848.96	-	9,848.96	8,937.40	(911.56)	8,937.40	68,639.21
07386HTQ4	415,178.41	-	415,178.41	250,591.67	(164,586.74)	250,591.67	347,054.18
073879PA0	1,795,558.69	-	1,795,558.69	1,668,300.00	(127,258.69)	1,668,300.00	661,470.00
073879QF8	1,097,646.34	-	1,097,646.34	1,108,896.41	11,250.07	1,108,896.41	629,200.12
073879Z92	11,677,483.85	-	11,677,483.85	11,388,410.35	(289,073.50)	11,388,410.35	3,777,103.02
07387AFA8	377,451.26	-	377,451.26	108,445.71	(269,005.55)	108,445.71	219,172.61
07387UHB0	2,977.83	-	2,977.83	-	(2,977.83)	-	9,898.61
07388UAB6	1,532,487.32	-	1,532,487.32	1,506,514.36	(25,972.96)	1,506,514.36	1,323,491.65
07389LAA7	854,961.17	-	854,961.17	851,520.28	(3,440.89)	851,520.28	759,409.75
07389PAY6	354,984.94	-	354,984.94	293,211.80	(61,773.14)	293,211.80	285,271.62
07389VAA5	1,725,560.82	-	1,725,560.82	1,715,357.28	(10,203.54)	1,715,357.28	1,617,545.00
07400XAB4	3,600,099.61	-	3,600,099.61	3,429,090.00	(171,009.61)	3,429,090.00	1,712,050.20
07401EAA7	10,274,180.08	-	10,274,180.08	10,365,076.78	90,896.70	10,365,076.78	8,625,676.27
07401LAA1	15,877,589.54	-	15,877,589.54	15,533,760.67	(343,828.87)	15,533,760.67	9,168,168.09
07401LAQ6	4,389,861.34	-	4,389,861.34	4,162,869.65	(226,991.69)	4,162,869.65	2,452,575.10
07401LAU7	(5,586.31)	-	(5,586.31)	-	5,586.31	-	-
07820QAY1	17,991,396.58	-	17,991,396.58	17,874,223.26	(117,173.32)	17,874,223.26	12,522,069.85
078446AB7	166,400.00	-	166,400.00	158,000.00	(8,400.00)	158,000.00	158,000.00
12489WQE7	1,538,342.85	-	1,538,342.85	1,345,000.00	(193,342.85)	1,345,000.00	927,180.00
12489WQH0	103,752.46	-	103,752.46	46,000.00	(57,752.46)	46,000.00	88,533.52
1248MEAE9	1,353,070.11	-	1,353,070.11	1,200,600.00	(152,470.11)	1,200,600.00	1,125,220.73
1248MEAG4	955,591.98	-	955,591.98	943,054.18	(12,537.80)	943,054.18	980,168.04
1248RHAD9	4,642,110.21	-	4,642,110.21	4,350,796.19	(291,314.02)	4,350,796.19	2,686,481.24
12498NAB9	1,296,327.42	-	1,296,327.42	1,300,043.64	3,716.22	1,300,043.64	1,022,226.52
12567AAF4	469,562.67	-	469,562.67	464,059.25	(5,503.42)	464,059.25	705,163.45
12629EAK1	16,909.19	-	16,909.19	8,122.99	(8,786.20)	8,122.99	44,561.95
12638PAL3	1,058.97	-	1,058.97	889.65	(169.32)	889.65	7,735.64
126670JD1	1,422,556.94	-	1,422,556.94	1,345,460.94	(77,096.00)	1,345,460.94	1,209,221.78
126670KN7	1,882,551.51	-	1,882,551.51	1,819,500.00	(63,051.51)	1,819,500.00	828,559.17
126670LP1	5,761,620.57	-	5,761,620.57	4,200,800.00	(1,560,820.57)	4,200,800.00	2,006,123.20
126670WT1	5,049,493.61	-	5,049,493.61	5,048,456.17	(1,037.44)	5,048,456.17	3,955,237.36
12667F2A2	107,950.75	-	107,950.75	81,501.98	(26,448.77)	81,501.98	57,031.63
12667GR62	12,034,217.30	-	12,034,217.30	12,073,212.23	38,994.93	12,073,212.23	7,916,470.73
12667GRW5	799,879.55	-	799,879.55	797,958.85	(1,920.70)	797,958.85	404,879.54
12667GS20	15,311,868.14	-	15,311,868.14	15,354,951.99	43,083.85	15,354,951.99	8,628,835.58
12667GWF6	9,652,027.05	-	9,652,027.05	9,489,259.99	(162,767.06)	9,489,259.99	4,902,737.70
12667NAC2	251,911.17	-	251,911.17	249,866.00	(2,045.17)	249,866.00	218,280.00
12668A3Q6	9,699,104.28	-	9,699,104.28	9,668,991.25	(30,113.03)	9,668,991.25	3,546,923.33
12668A3V5	6,673.14	-	6,673.14	5,302.70	(1,370.44)	5,302.70	30,555.79
12668A4B8	16,977,160.10	-	16,977,160.10	16,673,192.76	(303,967.34)	16,673,192.76	8,866,596.30
12668A4G7	15,366.29	-	15,366.29	13,010.94	(2,355.35)	13,010.94	68,978.49
12668ACZ6	4,065,168.53	-	4,065,168.53	4,050,696.56	(14,471.97)	4,050,696.56	2,424,715.75
12668AEV3	13,357,271.07	-	13,357,271.07	13,287,158.65	(70,112.42)	13,287,158.65	7,744,665.35
12668APF6	397,190.95	-	397,190.95	435,894.80	38,703.85	435,894.80	508,677.53
12668AWQ4	3,410.61	-	3,410.61	3,185.74	(224.87)	3,185.74	29,978.75
12668BAU7	198,182.44	-	198,182.44	158,915.95	(39,266.49)	158,915.95	206,969.20
12668BB77	26,825,369.39	-	26,825,369.39	26,552,823.77	(272,545.62)	26,552,823.77	16,278,170.18
12668BDR1	9,544.23	-	9,544.23	8,262.10	(1,282.13)	8,262.10	65,796.36
126694F86	2,247.30	-	2,247.30	1,534.92	(712.38)	1,534.92	18,129.36
126694YM4	3,906,587.42	-	3,906,587.42	3,782,512.07	(124,075.35)	3,782,512.07	1,932,468.84
126694YW2	3,829.91	-	3,829.91	2,948.00	(881.91)	2,948.00	41,491.76
126694ZB7	14,982.76	-	14,982.76	10,500.00	(4,482.76)	10,500.00	57,324.50
126694ZD3	1,305.16	-	1,305.16	1,177.20	(127.96)	1,177.20	6,312.54
12669D3C0	511,405.49	-	511,405.49	486,445.28	(24,960.21)	486,445.28	264,997.60
12669E6K7	1,275,099.03	-	1,275,099.03	607,888.89	(667,210.14)	607,888.89	920,106.92
12669EH33	228,927.15	-	228,927.15	242,713.34	13,786.19	242,713.34	233,043.73
12669EJ56	270,811.58	-	270,811.58	24,997.89	(245,813.69)	24,997.89	61,567.92
12669FVD2	1,007,377.18	-	1,007,377.18	999,911.94	(7,465.24)	999,911.94	981,585.71
12669FXR9	653,960.69	-	653,960.69	641,741.88	(12,218.81)	641,741.88	425,790.53
12669GKH3	14,665,275.18	-	14,665,275.18	14,590,699.61	(74,575.57)	14,590,699.61	10,100,291.01
12669GMS7	313,009.05	-	313,009.05	299,972.64	(13,036.41)	299,972.64	179,157.58
12669GPB1	14,601.77	-	14,601.77	14,549.74	(52.03)	14,549.74	53,564.67
12669GRM5	3,081,233.74	-	3,081,233.74	3,352,603.86	271,370.12	3,352,603.86	1,882,027.27
12669GRQ6	9,109,436.68	-	9,109,436.68	8,824,803.62	(284,633.06)	8,824,803.62	5,379,170.19
12669GTV3	421,794.46	-	421,794.46	420,982.68	(811.78)	420,982.68	230,737.93

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12669GUR0	\$ 4,179,563.69	\$ -	\$ 4,179,563.69	\$ 4,148,210.13	\$ (31,353.56)	\$ 4,148,210.13	\$ 2,417,636.96
12669UBB5	497,411.54	-	497,411.54	493,894.86	(3,516.68)	493,894.86	491,696.29
17307GH76	397,457.47	-	397,457.47	382,054.30	(15,403.17)	382,054.30	266,796.74
17307GH84	128,097.34	-	128,097.34	107,648.21	(20,449.13)	107,648.21	107,719.90
17307GN79	64,434.59	-	64,434.59	(6,343.76)	(70,778.35)	(6,343.76)	91,934.55
17309CAL9	7,182.19	-	7,182.19	-	(7,182.19)	-	24,758.15
17309MAF0	58,628.93	-	58,628.93	43,394.40	(15,234.53)	43,394.40	57,177.44
17309NAH4	373,732.49	-	373,732.49	334,800.00	(38,932.49)	334,800.00	1,298,044.40
17309QAM6	4,197.12	-	4,197.12	3,000.00	(1,197.12)	3,000.00	9,824.40
17309RAM4	10,591.41	-	10,591.41	5,869.13	(4,722.28)	5,869.13	55,161.47
17309SAM2	2,553.02	-	2,553.02	1,448.00	(1,105.02)	1,448.00	2,452.48
17309YAJ6	25,648.97	-	25,648.97	3,103.02	(22,545.95)	3,103.02	97,677.60
17309YAK3	2,055.84	-	2,055.84	-	(2,055.84)	-	18,843.16
17310UAE2	4,863.91	-	4,863.91	3,149.20	(1,714.71)	3,149.20	37,856.60
22540V3F7	2,411,427.95	-	2,411,427.95	2,321,586.20	(89,841.75)	2,321,586.20	1,248,566.68
22540V5D0	87,109.83	-	87,109.83	77,223.00	(9,886.83)	77,223.00	74,577.85
22541N5E5	1,341,369.91	-	1,341,369.91	429,412.25	(911,957.66)	429,412.25	681,963.97
22541NR68	91,777.21	-	91,777.21	64,007.81	(27,769.40)	64,007.81	36,806.33
22541Q4M1	1,243,941.82	-	1,243,941.82	951,213.77	(292,728.05)	951,213.77	606,698.16
22541QA44	1,590,638.83	-	1,590,638.83	1,124,084.31	(466,554.52)	1,124,084.31	674,486.19
22541QDA7	1,002,335.52	-	1,002,335.52	902,832.43	(99,503.09)	902,832.43	551,737.51
22541QDB5	498,362.48	-	498,362.48	179,078.08	(319,284.40)	179,078.08	293,133.14
22541QJR4	557,142.26	-	557,142.26	160,749.67	(396,392.59)	160,749.67	231,142.96
22541QV25	694,071.00	-	694,071.00	33,535.67	(660,535.33)	33,535.67	88,578.43
22541SRZ3	4,975.02	-	4,975.02	-	(4,975.02)	-	57,754.68
2254W0KK0	(114,853.15)	-	(114,853.15)	9,127.39	123,980.54	9,127.39	145,406.11
22943HAD8	12,658,026.12	-	12,658,026.12	11,979,500.00	(678,526.12)	11,979,500.00	3,107,109.00
23242TAB2	3,876,054.68	-	3,876,054.68	3,667,644.39	(208,410.29)	3,667,644.39	3,482,624.36
23243AAD8	1,268,803.87	-	1,268,803.87	1,258,403.49	(10,400.38)	1,258,403.49	762,487.54
23244LAB7	2,921,778.81	-	2,921,778.81	2,692,489.24	(229,289.57)	2,692,489.24	2,917,292.00
23245QAA7	2,568,138.12	-	2,568,138.12	2,562,342.02	(5,796.10)	2,562,342.02	1,698,820.61
23248AAJ0	1,208,310.57	-	1,208,310.57	1,157,582.75	(50,727.82)	1,157,582.75	1,035,893.64
23332UAS3	199,348.78	-	199,348.78	188,388.88	(10,959.90)	188,388.88	64,507.98
23332UCM4	628,465.64	-	628,465.64	627,691.34	(774.30)	627,691.34	392,394.03
251508AB3	10,150,913.78	-	10,150,913.78	9,685,446.31	(465,467.47)	9,685,446.31	5,756,383.64
25150PAD1	738.34	-	738.34	537.08	(201.26)	537.08	779.86
251510HS5	12,076,035.59	-	12,076,035.59	11,980,270.70	(95,764.89)	11,980,270.70	8,391,267.44
25151AAA9	6,156,622.27	-	6,156,622.27	5,886,248.70	(270,373.57)	5,886,248.70	3,673,969.96
251563DR0	32,476.26	-	32,476.26	17,900.81	(14,575.45)	17,900.81	97,307.20
26441EAC5	284,250.00	-	284,250.00	251,750.00	(32,500.00)	251,750.00	250,000.00
26441NAA9	16,200.00	-	16,200.00	-	(16,200.00)	-	-
26441NAB7	10,800.00	-	10,800.00	-	(10,800.00)	-	-
30251YAB4	9,121,482.29	-	9,121,482.29	9,096,257.47	(25,224.82)	9,096,257.47	6,851,854.85
32051DQ62	1,061,091.21	-	1,061,091.21	388,057.22	(673,033.99)	388,057.22	453,199.81
32051DRA2	109,062.39	-	109,062.39	106,337.62	(2,724.77)	106,337.62	99,813.99
32051GBV6	187,895.70	-	187,895.70	126,531.75	(61,363.95)	126,531.75	146,678.33
32051GCF0	192,738.63	-	192,738.63	50,620.75	(142,117.88)	50,620.75	92,555.98
32051GVN2	3,158,791.63	-	3,158,791.63	3,062,503.01	(96,288.62)	3,062,503.01	3,041,436.06
32051GZS7	6,908,445.51	-	6,908,445.51	6,874,600.00	(33,845.51)	6,874,600.00	5,970,500.80
32056CAH2	17,195,946.42	-	17,195,946.42	17,168,868.00	(27,078.42)	17,168,868.00	12,910,676.34
32113JAA3	713,670.08	-	713,670.08	711,792.32	(1,877.76)	711,792.32	374,625.04
35729RAE6	7,103,874.77	-	7,103,874.77	6,989,036.57	(114,838.20)	6,989,036.57	6,175,384.09
35952Z007	8,065,469.65	-	8,065,469.65	5,923,357.50	(2,142,112.15)	5,923,357.50	2,685,858.70
35952Z023	6,509,562.82	-	6,509,562.82	4,511,207.33	(1,998,355.49)	4,511,207.33	2,071,187.74
35952Z031	6,890,943.12	-	6,890,943.12	4,688,529.86	(2,202,413.26)	4,688,529.86	2,036,793.37
35952Z049	5,920,336.51	-	5,920,336.51	4,383,058.82	(1,537,277.69)	4,383,058.82	1,719,720.00
35952Z056	6,015,993.51	-	6,015,993.51	4,285,422.23	(1,730,571.28)	4,285,422.23	1,640,899.51
35952Z064	6,114,977.70	-	6,114,977.70	4,622,032.20	(1,492,945.50)	4,622,032.20	1,736,917.20
35952ZA06	11,259,327.98	-	11,259,327.98	12,498,712.40	1,239,384.42	12,498,712.40	4,604,527.38
35952ZA14	525,997.04	-	525,997.04	581,463.24	55,466.20	581,463.24	206,481.07
35952ZA22	879,036.26	-	879,036.26	891,667.03	12,630.77	891,667.03	319,638.64
36228FWU6	1,772,489.98	-	1,772,489.98	1,666,967.85	(105,522.13)	1,666,967.85	862,761.89
362334EB6	9,599,991.93	-	9,599,991.93	9,320,003.40	(279,988.53)	9,320,003.40	7,490,942.58
36242D3Z4	57,525.76	-	57,525.76	38,760.00	(18,765.76)	38,760.00	35,757.60
36242DGA5	130,459.06	-	130,459.06	72,347.83	(58,111.23)	72,347.83	68,110.75
362437AC9	2,400,982.68	-	2,400,982.68	2,435,483.10	34,500.42	2,435,483.10	1,994,990.42
362480AD7	16,297,435.82	-	16,297,435.82	15,919,814.77	(377,621.05)	15,919,814.77	8,176,528.40
39538RBB4	13,683,066.88	-	13,683,066.88	13,663,955.41	(19,111.47)	13,663,955.41	7,674,341.82
39538WBH0	12,049.27	-	12,049.27	8,462.30	(3,586.97)	8,462.30	19,127.00
39539GAA0	5,437,538.55	-	5,437,538.55	5,402,943.73	(34,594.82)	5,402,943.73	3,151,642.90
40430HAJ7	68,648.39	-	68,648.39	25,350.40	(43,297.99)	25,350.40	61,780.60
40430HBH0	6,438.06	-	6,438.06	2,850.00	(3,588.06)	2,850.00	7,418.85

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
40430HBJ6	\$ 575.14	\$ -	\$ 575.14	\$ -	\$ (575.14)	\$ -	\$ 1,578.67
40430HCQ9	3,267.41	-	3,267.41	2,200.00	(1,067.41)	2,200.00	11,853.80
40430HEB0	40,225.13	-	40,225.13	32,045.00	(8,180.13)	32,045.00	72,018.60
40430HFL7	1,906,241.76	-	1,906,241.76	1,905,800.00	(441.76)	1,905,800.00	1,430,500.00
40430MAB3	417,243.03	-	417,243.03	464,426.75	47,183.72	464,426.75	352,134.61
40431HAT4	(1,243.19)	-	(1,243.19)	84.55	1,327.74	84.55	23,686.62
40431KAE0	5,616,940.27	-	5,616,940.27	5,404,731.70	(212,208.57)	5,404,731.70	5,004,585.48
40431KAL4	247.98	-	247.98	115.03	(132.95)	115.03	9,863.13
40431RAN5	7,087.43	-	7,087.43	4,200.00	(2,887.43)	4,200.00	40,650.00
40431XAF9	1,186,537.22	-	1,186,537.22	1,159,500.00	(27,037.22)	1,159,500.00	2,549,782.00
41161PA86	1,932,863.68	-	1,932,863.68	1,946,607.10	13,743.42	1,946,607.10	1,579,448.32
41161PH55	2,308.18	-	2,308.18	1,361.08	(947.10)	1,361.08	34,968.16
41161PHC0	8,684,339.77	-	8,684,339.77	8,650,857.66	(33,482.11)	8,650,857.66	6,046,837.12
41161PHU0	8,248,074.03	-	8,248,074.03	8,260,672.16	12,598.13	8,260,672.16	6,028,918.93
41161PHZ9	105,317.98	-	105,317.98	49,376.44	(55,941.54)	49,376.44	169,736.74
41161PKH5	703,592.11	-	703,592.11	693,970.59	(9,621.52)	693,970.59	369,720.57
41161PL43	21,312,175.88	-	21,312,175.88	21,067,464.83	(244,711.05)	21,067,464.83	13,010,953.08
41161PLR2	13,570,563.22	-	13,570,563.22	13,553,010.79	(17,552.43)	13,553,010.79	8,267,824.75
41161PMG5	16,528,742.13	-	16,528,742.13	16,420,663.89	(108,078.24)	16,420,663.89	9,831,420.53
41161PQU0	14,247,339.00	-	14,247,339.00	14,119,857.84	(127,481.16)	14,119,857.84	8,182,334.16
41161PSC8	9,057.18	-	9,057.18	(11,726.62)	(20,783.80)	(11,726.62)	94,792.19
41161PTN3	2,352,983.33	-	2,352,983.33	2,338,387.78	(14,595.55)	2,338,387.78	1,286,123.03
41161PTP8	860,946.29	-	860,946.29	795,970.32	(64,975.97)	795,970.32	461,410.28
41161PWB5	7,640,228.26	-	7,640,228.26	7,589,704.81	(50,523.45)	7,589,704.81	4,265,834.61
41161PXH1	883,571.47	-	883,571.47	865,233.01	(18,338.46)	865,233.01	530,313.95
41164LAB5	16,324,343.45	-	16,324,343.45	16,026,074.34	(298,269.11)	16,026,074.34	8,166,968.73
43739EAP2	21,270,837.01	-	21,270,837.01	21,234,151.29	(36,685.72)	21,234,151.29	11,958,425.86
43739EBJ5	9,849,040.21	-	9,849,040.21	9,836,426.12	(12,614.09)	9,836,426.12	7,050,584.45
43739EBS5	9,761,473.92	-	9,761,473.92	9,739,688.58	(21,785.34)	9,739,688.58	7,491,729.31
44328AAB6	72,387.91	-	72,387.91	68,804.39	(3,583.52)	68,804.39	82,413.19
45254NHV2	351,070.12	-	351,070.12	350,054.35	(1,015.77)	350,054.35	118,198.60
45254NKK2	1,662.13	-	1,662.13	(4,540.56)	(6,202.69)	(4,540.56)	59,521.89
45254NNP8	14,514,889.48	-	14,514,889.48	14,347,261.74	(167,627.74)	14,347,261.74	9,219,523.58
45254NPA9	16,488,639.41	-	16,488,639.41	16,545,405.79	56,766.38	16,545,405.79	11,378,134.66
45254NPG6	1,326,995.88	-	1,326,995.88	1,319,430.88	(7,565.00)	1,319,430.88	726,877.60
45254NPU5	5,842,116.51	-	5,842,116.51	5,842,706.05	589.54	5,842,706.05	3,342,705.65
45254TSM7	4,706,017.40	-	4,706,017.40	4,671,005.96	(35,011.44)	4,671,005.96	1,902,063.76
452570AA2	78,979.72	-	78,979.72	69,313.68	(9,666.04)	69,313.68	56,900.86
45257EAA2	4,858,654.29	-	4,858,654.29	4,744,758.79	(113,895.50)	4,744,758.79	2,146,887.55
45660L4P1	57,105.29	-	57,105.29	1,487.39	(55,617.90)	1,487.39	2,974.77
45660LGX1	55,462.51	-	55,462.51	26,390.73	(29,071.78)	26,390.73	44,753.20
45660LR84	17,959.47	-	17,959.47	314.71	(17,644.76)	314.71	125,577.31
45660LVD8	29,293.49	-	29,293.49	20,639.38	(8,654.11)	20,639.38	32,388.63
45660LW96	4,198,962.53	-	4,198,962.53	3,976,700.61	(222,261.92)	3,976,700.61	2,275,550.77
45660LWD7	3,585,120.26	-	3,585,120.26	3,648,215.73	63,095.47	3,648,215.73	2,987,251.47
45660LYW3	5,093,081.02	-	5,093,081.02	4,859,106.65	(233,974.37)	4,859,106.65	2,460,258.47
45660N5H4	6,940,643.73	-	6,940,643.73	6,872,107.52	(68,536.21)	6,872,107.52	4,951,097.58
45660NRB3	1,046,779.44	-	1,046,779.44	956,329.19	(90,450.25)	956,329.19	549,296.43
45661LAG3	6,278,951.15	-	6,278,951.15	6,219,245.94	(59,705.21)	6,219,245.94	3,878,668.50
45662BAJ8	117,708.71	-	117,708.71	52,382.87	(65,325.84)	52,382.87	96,349.55
45664BAE7	31,930.23	-	31,930.23	19,321.22	(12,609.01)	19,321.22	59,107.26
45667QAJ0	9,023.13	-	9,023.13	-	(9,023.13)	-	22,839.71
45667WAA6	5,365,903.21	-	5,365,903.21	5,411,747.26	45,844.05	5,411,747.26	3,202,501.98
45667WAC2	547,486.67	-	547,486.67	763,285.49	215,798.82	763,285.49	615,123.57
45668WAE7	400,512.99	-	400,512.99	314,114.04	(86,398.95)	314,114.04	661,985.18
464126BW0	598,566.21	-	598,566.21	111,704.79	(486,861.42)	111,704.79	320,035.54
46412AAD4	4,121,977.45	-	4,121,977.45	4,101,600.00	(20,377.45)	4,101,600.00	3,652,259.00
466247NC3	671,953.93	-	671,953.93	547,381.34	(124,572.59)	547,381.34	511,342.55
466247UG6	3,233,027.72	-	3,233,027.72	3,098,218.17	(134,809.55)	3,098,218.17	2,561,267.89
466247XE8	7,272,359.33	-	7,272,359.33	7,264,895.35	(7,463.98)	7,264,895.35	4,755,810.49
46626CBS8	499,730.40	-	499,730.40	490,727.81	(9,002.59)	490,727.81	912,998.60
466284AG1	37.46	-	37.46	32.45	(5.01)	32.45	28.75
466286AH4	307.91	-	307.91	217.20	(90.71)	217.20	484.46
46629QAR7	13,880.46	-	13,880.46	3,800.00	(10,080.46)	3,800.00	34,136.00
46629QAU0	1,464,528.27	-	1,464,528.27	1,404,150.00	(60,378.27)	1,404,150.00	1,106,352.50
46629TAP5	15,869.93	-	15,869.93	10,800.00	(5,069.93)	10,800.00	73,142.00
46630KAA4	1,602,207.06	-	1,602,207.06	1,530,732.32	(71,474.74)	1,530,732.32	1,317,540.34
525221CD7	716,769.44	-	716,769.44	484,971.00	(231,798.44)	484,971.00	90,215.24
525221CE5	289.33	-	289.33	-	(289.33)	-	7,854.89
525221DV6	3,449.65	-	3,449.65	2,394.94	(1,054.71)	2,394.94	86,338.90
525221FE2	7,720.86	-	7,720.86	3,363.20	(4,357.66)	3,363.20	12,358.50

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
525221JA6	\$ 116,346.84	\$ -	\$ 116,346.84	\$ 81,030.00	\$ (35,316.84)	\$ 81,030.00	\$ 406,247.24
525226AL0	1,055,302.54	-	1,055,302.54	997,957.40	(57,345.14)	997,957.40	102,952.50
525229AG5	1,931,253.09	-	1,931,253.09	1,680,020.00	(251,233.09)	1,680,020.00	1,273,802.56
52524VAG4	14,474,664.81	-	14,474,664.81	14,416,315.57	(58,349.24)	14,416,315.57	8,784,292.16
52524YAF0	13,450,949.29	-	13,450,949.29	13,386,690.17	(64,259.12)	13,386,690.17	7,263,302.75
55027AAU4	6,219,823.70	-	6,219,823.70	6,105,504.94	(114,318.76)	6,105,504.94	3,131,646.74
56119LAG8	1,531,598.40	-	1,531,598.40	1,186,038.30	(345,560.10)	1,186,038.30	214,965.00
576433FP6	771,580.52	-	771,580.52	716,828.32	(54,752.20)	716,828.32	213,700.43
576433GW0	2,295,240.95	-	2,295,240.95	1,556,877.33	(738,363.62)	1,556,877.33	646,036.06
57643LMP8	1,993,072.89	-	1,993,072.89	1,947,900.00	(45,172.89)	1,947,900.00	1,002,042.90
576444AA1	(779.62)	-	(779.62)	-	779.62	-	-
5899293W6	1,807,333.19	-	1,807,333.19	1,786,708.53	(20,624.66)	1,786,708.53	944,289.17
589929E87	1,448,488.04	-	1,448,488.04	1,279,493.11	(168,994.93)	1,279,493.11	837,606.22
589929P69	830,665.30	-	830,665.30	478,173.69	(352,491.61)	478,173.69	461,485.74
589929X29	5,532,994.49	-	5,532,994.49	5,493,059.31	(39,935.18)	5,493,059.31	3,800,413.69
59020UQ57	3,596,606.83	-	3,596,606.83	3,585,447.04	(11,159.79)	3,585,447.04	1,908,268.00
590212AB2	253,386.47	-	253,386.47	248,375.12	(5,011.35)	248,375.12	255,826.54
59023FAA3	176,165.41	-	176,165.41	130,914.20	(45,251.21)	130,914.20	132,099.73
59023WAG3	32,000.47	-	32,000.47	21,300.00	(10,700.47)	21,300.00	36,446.40
59024UAB7	1,566,860.27	-	1,566,860.27	1,598,526.69	31,666.42	1,598,526.69	1,515,062.94
617451DQ9	10,030,791.45	-	10,030,791.45	9,954,962.94	(75,828.51)	9,954,962.94	8,429,423.39
61748HRF0	2,763.46	-	2,763.46	-	(2,763.46)	-	91.39
61750FAE0	739,608.63	-	739,608.63	679,675.00	(59,933.63)	679,675.00	541,904.34
61751JAQ4	24,575.78	-	24,575.78	13,759.20	(10,816.58)	13,759.20	47,797.93
617526AE8	330,663.44	-	330,663.44	313,885.00	(16,778.44)	313,885.00	247,384.92
61753VAG7	1,369.53	-	1,369.53	960.00	(409.53)	960.00	3,245.84
61755FAE5	13,795.30	-	13,795.30	6,720.00	(7,075.30)	6,720.00	41,503.98
61757MAB4	2,416,976.44	-	2,416,976.44	2,191,534.85	(225,441.59)	2,191,534.85	2,104,833.35
61915RAZ9	(48,861.61)	-	(48,861.61)	(99,571.12)	(50,709.51)	(99,571.12)	21,658.12
61915RBB1	8,041,934.45	-	8,041,934.45	7,966,617.83	(75,316.62)	7,966,617.83	5,094,346.85
638728AC9	2,529,371.10	-	2,529,371.10	2,436,780.50	(92,590.60)	2,436,780.50	1,983,431.19
64352VPC9	13,538.07	-	13,538.07	7,000.00	(6,538.07)	7,000.00	9,830.40
64352VQR5	7,173,253.21	-	7,173,253.21	6,896,118.38	(277,134.83)	6,896,118.38	6,400,272.64
65106FAB8	12,246,548.33	-	12,246,548.33	11,793,326.27	(453,222.06)	11,793,326.27	8,280,989.02
65106FAG7	393,807.29	-	393,807.29	204,425.00	(189,382.29)	204,425.00	693,283.63
65535VEY0	439,294.57	-	439,294.57	330,026.26	(109,268.31)	330,026.26	649,249.81
65535VLQ9	10,002.24	-	10,002.24	7,670.51	(2,331.73)	7,670.51	53,267.93
65535VPK8	1,862.16	-	1,862.16	-	(1,862.16)	-	6,932.41
65535VSQ2	19,886.90	-	19,886.90	7,198.79	(12,688.11)	7,198.79	38,984.74
65535VUS5	2,700,789.29	-	2,700,789.29	2,764,641.09	63,851.80	2,764,641.09	2,166,578.74
65537BAG5	66,290.17	-	66,290.17	45,150.00	(21,140.17)	45,150.00	161,976.15
65538DAA3	3,587,773.52	-	3,587,773.52	3,545,133.47	(42,640.05)	3,545,133.47	2,582,862.12
66987WDE4	2,625,510.75	-	2,625,510.75	2,428,800.00	(196,710.75)	2,428,800.00	1,196,770.74
669884AF5	19,285.80	-	19,285.80	11,250.00	(8,035.80)	11,250.00	20,330.50
68389FBW3	33,467.51	-	33,467.51	32,514.84	(952.67)	32,514.84	26,461.32
69121PDE0	337,904.52	-	337,904.52	330,332.54	(7,571.98)	330,332.54	342,386.82
74922MAB7	11,431,419.30	-	11,431,419.30	12,060,094.72	628,675.42	12,060,094.72	6,799,658.99
74922MAC5	1,608,236.42	-	1,608,236.42	1,589,031.34	(19,205.08)	1,589,031.34	938,655.75
74924YAH6	18,269.99	-	18,269.99	8,550.00	(9,719.99)	8,550.00	18,488.81
74951PBT4	5,484,649.92	-	5,484,649.92	2,882,847.76	(2,601,802.16)	2,882,847.76	3,317,692.94
74951PBV9	1,236,488.82	-	1,236,488.82	367,538.91	(868,949.91)	367,538.91	634,193.57
75114NAA2	12,415,475.64	-	12,415,475.64	12,592,378.28	176,902.64	12,592,378.28	7,078,169.46
75114NAB0	4,382,484.62	-	4,382,484.62	4,341,810.74	(40,673.88)	4,341,810.74	2,673,649.69
75156XAC5	1,406,146.85	-	1,406,146.85	1,330,200.00	(75,946.85)	1,330,200.00	899,292.00
75405KAG3	16,425.07	-	16,425.07	12,300.00	(4,125.07)	12,300.00	75,213.00
75970JAL0	61,163.35	-	61,163.35	48,650.00	(12,513.35)	48,650.00	92,067.50
75971EAK2	101,429.40	-	101,429.40	89,250.00	(12,179.40)	89,250.00	247,528.76
76110GJ85	3,864,459.70	-	3,864,459.70	3,665,252.74	(199,206.96)	3,665,252.74	3,061,346.35
76110GTL5	1,463,336.67	-	1,463,336.67	1,300,907.44	(162,429.23)	1,300,907.44	1,302,525.24
76110H4M8	288,079.24	-	288,079.24	294,469.45	6,390.21	294,469.45	165,342.19
76110H5D7	4,105.91	-	4,105.91	-	(4,105.91)	-	8,182.00
76110HKX6	7,893,012.90	-	7,893,012.90	6,186,611.22	(1,706,401.68)	6,186,611.22	4,372,713.03
76110HKY4	1,278,603.06	-	1,278,603.06	508,627.13	(769,975.93)	508,627.13	472,017.62
76110W4J2	9,281.19	-	9,281.19	5,900.00	(3,381.19)	5,900.00	15,173.50
761118FM5	11,578,199.50	-	11,578,199.50	11,351,800.46	(226,399.04)	11,351,800.46	8,055,693.27
761118FQ6	(5,394.10)	-	(5,394.10)	684.04	6,078.14	684.04	815.88
761118LA4	89,364.47	-	89,364.47	19,128.92	(70,235.55)	19,128.92	53,689.56
761118NN4	11,750,031.34	-	11,750,031.34	11,683,514.47	(66,516.87)	11,683,514.47	6,831,233.12
761118RJ9	584,954.38	-	584,954.38	586,526.40	1,572.02	586,526.40	294,944.40
761118WP9	14,619,263.04	-	14,619,263.04	14,876,489.48	257,226.44	14,876,489.48	8,313,574.28
761118WS3	383.75	-	383.75	227.01	(156.74)	227.01	225.89
76112B4M9	2,439,020.27	-	2,439,020.27	2,404,349.19	(34,671.08)	2,404,349.19	2,019,551.99

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
76112BK66	\$ 11,985.79	\$ -	\$ 11,985.79	\$ 6,300.00	\$ (5,685.79)	\$ 6,300.00	\$ 10,654.50
76112BN55	24,080.01	-	24,080.01	14,400.00	(9,680.01)	14,400.00	16,935.00
76113ABJ9	1,388,640.81	-	1,388,640.81	1,337,600.00	(51,040.81)	1,337,600.00	859,889.60
79549ASM2	528,733.61	-	528,733.61	529,063.44	329.83	529,063.44	353,400.35
79549AYA1	1,746,028.85	-	1,746,028.85	1,703,857.90	(42,170.95)	1,703,857.90	778,101.18
79549AYB9	218,187.22	-	218,187.22	187,191.41	(30,995.81)	187,191.41	96,687.17
81377EAA2	202,504.30	-	202,504.30	186,651.28	(15,853.02)	186,651.28	187,847.34
81378EAA1	4,708,051.44	-	4,708,051.44	4,553,938.28	(154,113.16)	4,553,938.28	3,378,267.41
81379EAA0	618,582.45	-	618,582.45	592,323.58	(26,258.87)	592,323.58	493,421.15
81744DAD4	15,718.69	-	15,718.69	6,858.21	(8,860.48)	6,858.21	383,641.06
81879MAX7	52,295.44	-	52,295.44	31,371.60	(20,923.84)	31,371.60	57,163.88
84752CAE7	1,739,762.41	-	1,739,762.41	1,694,120.80	(45,641.61)	1,694,120.80	737,746.90
863572F99	587,916.59	-	587,916.59	510,742.13	(77,174.46)	510,742.13	587,374.29
863579DV7	1,068,600.51	-	1,068,600.51	1,010,289.20	(58,311.31)	1,010,289.20	167,669.35
863579DX3	127,318.68	-	127,318.68	84,995.11	(42,323.57)	84,995.11	32,006.02
863579GG7	151,897.55	-	151,897.55	54,661.92	(97,235.63)	54,661.92	73,424.24
863579GJ1	17,924.39	-	17,924.39	4,252.65	(13,671.74)	4,252.65	11,790.55
863579YR3	9,668,608.41	-	9,668,608.41	9,682,436.26	13,827.85	9,682,436.26	6,454,932.31
86358BAH5	11,444.36	-	11,444.36	7,600.00	(3,844.36)	7,600.00	12,137.78
86358HRL5	227,783.68	-	227,783.68	61,403.81	(166,379.87)	61,403.81	86,971.95
86358R5Q6	141,013.37	-	141,013.37	124,445.32	(16,568.05)	124,445.32	79,901.94
86358R5R4	70,851.82	-	70,851.82	5,081.88	(65,769.94)	5,081.88	55,213.13
86358RA49	1,102,248.66	-	1,102,248.66	1,018,016.27	(84,232.39)	1,018,016.27	1,025,969.02
86358RUM7	144,265.60	-	144,265.60	140,834.85	(3,430.75)	140,834.85	83,173.74
86358RUR6	281,833.09	-	281,833.09	14,020.35	(267,812.74)	14,020.35	50,346.49
86358RZD2	131,567.35	-	131,567.35	68,070.84	(63,496.51)	68,070.84	81,051.70
86359A5E9	400,036.49	-	400,036.49	378,193.16	(21,843.33)	378,193.16	214,705.34
86359A6A6	5,190,884.87	-	5,190,884.87	2,144,186.81	(3,046,698.06)	2,144,186.81	3,592,486.76
86359ACD3	657,812.43	-	657,812.43	698,847.44	41,035.01	698,847.44	593,348.76
86359ACE1	127,525.58	-	127,525.58	85,720.82	(41,804.76)	85,720.82	149,763.67
86359AEH2	217,329.03	-	217,329.03	142,463.94	(74,865.09)	142,463.94	29,794.54
86359AKY8	451,672.18	-	451,672.18	57,429.05	(394,243.13)	57,429.05	41,163.12
86359ANH2	1,625,931.20	-	1,625,931.20	1,597,034.59	(28,896.61)	1,597,034.59	1,436,518.18
86359AVY6	694,899.37	-	694,899.37	441,719.00	(253,180.37)	441,719.00	319,881.65
86359AXX6	3,496,393.13	-	3,496,393.13	2,901,987.18	(594,405.95)	2,901,987.18	2,440,768.26
86359AZE6	1,601,903.60	-	1,601,903.60	963,580.68	(638,322.92)	963,580.68	756,923.90
86359B7K1	180,036.49	-	180,036.49	177,133.15	(2,903.34)	177,133.15	149,857.96
86359BCV1	917,250.87	-	917,250.87	102,911.66	(814,339.21)	102,911.66	593,416.52
86359BLS8	(765.52)	-	(765.52)	4,756.32	5,521.84	4,756.32	9,386.31
86359BU82	80,989.75	-	80,989.75	59,799.79	(21,189.96)	59,799.79	9,375.22
86359DUV7	100,228.40	-	100,228.40	70,000.00	(30,228.40)	70,000.00	56,732.20
86361EAM3	5,713.02	-	5,713.02	3,284.60	(2,428.42)	3,284.60	7,494.26
86361EAP6	1,867.20	-	1,867.20	1,103.11	(764.09)	1,103.11	4,902.72
86361HAA2	15,908,376.25	-	15,908,376.25	15,741,893.88	(166,482.37)	15,741,893.88	8,278,116.90
86362HAA1	11,806,558.99	-	11,806,558.99	11,542,168.84	(264,390.15)	11,542,168.84	6,744,277.80
86362PAD7	122,110.19	-	122,110.19	107,406.00	(14,704.19)	107,406.00	89,587.21
86363DAA9	12,327,347.55	-	12,327,347.55	12,257,792.25	(69,555.30)	12,257,792.25	6,628,012.46
86363HAB8	4,505,006.39	-	4,505,006.39	4,920,744.14	415,737.75	4,920,744.14	4,136,896.52
872224AD2	19,360,265.50	-	19,360,265.50	17,477,756.10	(1,882,509.40)	17,477,756.10	9,504,094.06
872224AK6	28,832.86	-	28,832.86	23,511.00	(5,321.86)	23,511.00	123,806.16
872224AL4	8,099.64	-	8,099.64	1,164.18	(6,935.46)	1,164.18	13,797.68
872227AE3	5,255,391.40	-	5,255,391.40	5,112,134.61	(143,256.79)	5,112,134.61	4,213,328.85
872227AM5	36,583.13	-	36,583.13	32,844.00	(3,739.13)	32,844.00	268,004.90
88157QAL2	963,204.69	-	963,204.69	903,069.62	(60,135.07)	903,069.62	1,216,408.62
89789KAC9	11,270.83	-	11,270.83	6,900.00	(4,370.83)	6,900.00	25,650.00
929227EN2	569,748.66	-	569,748.66	366,800.69	(202,947.97)	366,800.69	207,340.98
929227QB5	319,152.69	-	319,152.69	297,658.60	(21,494.09)	297,658.60	257,135.74
92922FQ76	492,060.13	-	492,060.13	405,902.60	(86,157.53)	405,902.60	280,065.77
92922FW61	1,691,317.87	-	1,691,317.87	1,626,676.33	(64,641.54)	1,626,676.33	1,107,227.53
92922FZF8	10,776,618.19	-	10,776,618.19	10,695,625.74	(80,992.45)	10,695,625.74	7,703,997.63
92925CBB7	5,342,724.98	-	5,342,724.98	5,283,888.27	(58,836.71)	5,283,888.27	3,459,548.28
92926SAB2	37,659.12	-	37,659.12	33,309.57	(4,349.55)	33,309.57	31,677.85
92978EAA2	1,299,702.15	-	1,299,702.15	1,277,040.35	(22,661.80)	1,277,040.35	1,207,177.23
939335P90	136,353.31	-	136,353.31	24,812.73	(111,540.58)	24,812.73	105,085.13
9393363A9	482,453.05	-	482,453.05	429,963.70	(52,489.35)	429,963.70	438,545.75
9393365V1	2,188,779.74	-	2,188,779.74	2,194,352.58	5,572.84	2,194,352.58	1,760,086.24
939336PT4	264,641.23	-	264,641.23	75,014.80	(189,626.43)	75,014.80	61,371.06
939336X65	14,242,800.09	-	14,242,800.09	14,219,553.38	(23,246.71)	14,219,553.38	9,642,452.63
93934FJQ6	20,300,949.76	-	20,300,949.76	20,060,077.34	(240,872.42)	20,060,077.34	11,625,147.87
93934FMJ8	263,742.17	-	263,742.17	134,735.94	(129,006.23)	134,735.94	498,094.80
93934XAB9	1,814,260.94	-	1,814,260.94	1,794,115.38	(20,145.56)	1,794,115.38	1,802,322.38
93935AAE2	346,761.77	-	346,761.77	398,513.52	51,751.75	398,513.52	583,482.14

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
93935GAJ8	\$ 140,962.78	\$ -	\$ 140,962.78	\$ 706.10	\$ (140,256.68)	\$ 706.10	\$ 256,003.82
93935LAG3	153,138.70	-	153,138.70	50,369.66	(102,769.04)	50,369.66	158,381.51
93936JAM4	6,031.51	-	6,031.51	1,911.17	(4,120.34)	1,911.17	81,602.39
9497EVAF2	18,528.82	-	18,528.82	11,347.50	(7,181.32)	11,347.50	19,633.90
94983EAH6	16,211,475.69	-	16,211,475.69	16,192,004.62	(19,471.07)	16,192,004.62	13,657,428.60
94983TAE0	12,925,620.38	-	12,925,620.38	12,813,551.55	(112,068.83)	12,813,551.55	10,974,352.32
94983VAC9	9,097,159.83	-	9,097,159.83	8,692,723.09	(404,436.74)	8,692,723.09	8,522,414.47
94983YAQ2	5,376,220.47	-	5,376,220.47	5,308,861.83	(67,358.64)	5,308,861.83	4,332,505.87
Totals	\$ 1,349,124,213.70	\$ -	\$ 1,349,124,213.70	\$ 1,290,817,167.68	\$ (58,307,046.02)	\$ 1,290,817,167.68	\$ 852,088,739.42

The following is the impairment listing for loan-backed and structured securities for the three months ended September 30, 2009:

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
00075WAB5	\$ 519,208.77	\$ -	\$ 519,208.77	\$ 505,397.28	\$ (13,811.49)	\$ 505,397.28	\$ 431,544.10
004375CT6	7,163,799.24	2,320,488.32	9,484,287.56	9,484,287.55	(0.01)	9,484,287.55	7,603,980.73
004375EW7	1,412,259.63	(9,547.64)	1,402,711.99	1,215,557.40	(187,154.59)	1,215,557.40	1,054,591.76
004421TD5	1,640,313.96	(83,433.87)	1,556,880.09	1,395,269.58	(161,610.51)	1,395,269.58	603,332.40
00442FAB8	256,655.93	67,716.63	324,372.56	230,705.16	(93,667.40)	230,705.16	236,444.88
00442GAD2	1,907,979.94	2,091,086.82	3,999,066.76	3,124,322.03	(874,744.73)	3,124,322.03	3,153,383.33
00442JAE4	9,408,905.28	2,634,274.09	12,043,179.37	9,698,807.36	(2,344,372.01)	9,698,807.36	6,926,676.96
00442KAD3	4,530,278.00	1,014,609.95	5,544,887.95	4,412,473.61	(1,132,414.34)	4,412,473.61	2,762,424.19
00442LAD1	4,696,408.29	(298,978.62)	4,397,429.67	3,239,829.89	(1,157,599.78)	3,239,829.89	2,626,155.02
007034AQ4	9,932,047.59	-	9,932,047.59	8,177,107.14	(1,754,940.45)	8,177,107.14	6,315,489.20
007036CE4	276,597.44	(7,657.27)	268,940.17	27,673.33	(241,266.84)	27,673.33	50,000.00
007036FY7	267,715.87	(115,286.24)	152,429.63	46,375.37	(106,054.26)	46,375.37	25,491.51
007036GB6	1,112,630.46	28,476.25	1,141,106.71	1,141,195.35	88.64	1,141,195.35	356,724.66
007037BK9	4,376,248.93	174,940.68	4,551,189.61	2,812,608.70	(1,738,580.91)	2,812,608.70	2,106,840.61
01853GAB6	231,399.39	458,587.09	689,986.48	690,133.77	147.29	690,133.77	1,034,316.50
021455AB6	1,199,606.82	-	1,199,606.82	1,183,426.74	(16,180.08)	1,183,426.74	1,145,072.26
02146QAB9	18,139,547.18	(1,109,038.40)	17,030,508.78	16,602,919.70	(427,589.08)	16,602,919.70	9,826,134.14
02146TAQ0	23,322,301.50	(3,781,076.79)	19,541,224.71	18,632,146.52	(909,078.19)	18,632,146.52	16,793,527.25
02146YAD8	28,392,731.92	(1,298,316.49)	27,094,415.43	24,850,522.96	(2,243,892.47)	24,850,522.96	13,539,627.32
02147CAA1	12,032,963.00	(836,316.62)	11,196,646.38	11,146,023.16	(50,623.22)	11,146,023.16	6,660,035.47
02147DAB7	15,685,992.89	(1,423,193.90)	14,262,798.99	13,739,163.79	(523,635.20)	13,739,163.79	8,208,072.23
02147DAV3	2,659,658.94	381,732.43	3,041,391.37	2,786,404.27	(254,987.10)	2,786,404.27	1,852,975.82
02150MAB1	18,990,768.73	(2,272,583.08)	16,718,185.65	15,971,550.45	(746,635.20)	15,971,550.45	10,462,726.43
02639MAK2	19,054,674.06	(762,686.44)	18,291,987.62	18,291,987.62	-	18,291,987.62	13,047,387.11
02639MAM8	3,136,786.00	1,153,598.00	4,290,384.00	2,593,716.17	(1,696,667.83)	2,593,716.17	5,466,780.00
02660CAH3	250,275.32	559,387.76	809,663.08	784,773.38	(24,889.70)	784,773.38	272,569.10
02660TGN7	10,657,143.64	-	10,657,143.64	10,535,845.86	(121,297.78)	10,535,845.86	5,663,862.77
02660THA4	94,063.71	-	94,063.71	46,875.57	(47,188.14)	46,875.57	80,625.87
02660THL0	2,559,936.42	(330,934.05)	2,229,002.37	2,025,163.17	(203,839.20)	2,025,163.17	863,944.51
02660THT3	622,626.02	399,665.57	1,022,291.59	1,020,817.61	(1,473.98)	1,020,817.61	708,081.81
02660TJB0	28,906,129.30	(232,636.52)	28,673,492.78	28,315,779.46	(357,713.32)	28,315,779.46	13,601,174.72
02660VAK4	9,099.58	(9,369.79)	(270.21)	426.15	696.36	426.15	18,836.29
02660WAC0	24,520,208.95	(2,153,257.07)	22,366,951.88	21,454,399.72	(912,552.16)	21,454,399.72	11,771,553.20
02660XAD6	17,347,613.20	(1,191,995.95)	16,155,617.25	15,936,191.45	(219,425.80)	15,936,191.45	8,959,921.86
026929AD1	10,898,574.62	-	10,898,574.62	10,736,099.56	(162,475.06)	10,736,099.56	5,488,165.72
040104QN4	6,095,225.59	-	6,095,225.59	6,057,919.75	(37,305.84)	6,057,919.75	5,026,788.50
040104RV5	4,592,756.38	(123,260.12)	4,469,496.26	3,772,497.34	(696,998.92)	3,772,497.34	2,517,537.98
040104TG6	2,029,962.63	(124,581.79)	1,905,380.84	1,479,019.19	(426,361.65)	1,479,019.19	990,027.60
04012XAC9	844,620.86	-	844,620.86	759,834.46	(84,786.40)	759,834.46	495,326.07
04544TAB7	1,355,804.60	(280,621.33)	1,075,183.27	1,075,183.27	-	1,075,183.27	1,245,280.75
053642AC8	5,321,777.88	(371,777.88)	4,950,000.00	4,950,000.00	-	4,950,000.00	1,500,000.00
055294AA0	4,696,838.95	(945,422.18)	3,751,416.77	3,751,416.78	0.01	3,751,416.78	2,452,269.32
05535DCF9	9,821,744.05	(1,071,303.73)	8,750,440.32	8,750,440.31	(0.01)	8,750,440.31	5,750,898.37
05615P209	1,286,368.63	(589,368.63)	697,000.00	697,000.00	-	697,000.00	340,000.00
05615TAA0	5,007,026.16	(1,288,226.16)	3,718,800.00	3,718,800.00	-	3,718,800.00	1,080,000.00
056168AN7	4,346,552.00	1,373,448.00	5,720,000.00	5,720,000.00	-	5,720,000.00	500,000.00
05616YAE0	18,853,825.29	(4,465,158.11)	14,388,667.18	14,388,667.18	-	14,388,667.18	1,883,333.40
05617AMN8	34,594.93	-	34,594.93	2,310.04	(32,284.89)	2,310.04	14,596.18
05617BAA7	3,722,628.53	3,103,871.47	6,826,500.00	6,826,500.00	-	6,826,500.00	222,000.00
05946XJW4	170,338.75	(117,857.21)	52,481.54	52,477.87	(3.67)	52,477.87	158,146.37
05946XYB3	183,707.74	-	183,707.74	118,648.44	(65,059.30)	118,648.44	109,381.11
05946XYP2	1,428,514.72	-	1,428,514.72	1,330,552.30	(97,962.42)	1,330,552.30	773,023.36
05948XVJ7	815,068.00	114,504.11	929,572.11	902,461.25	(27,110.86)	902,461.25	202,681.69
05949AGR5	1,088,627.28	-	1,088,627.28	1,082,581.86	(6,045.42)	1,082,581.86	931,832.30
05949AHG8	6,613,855.55	-	6,613,855.55	6,501,312.64	(112,542.91)	6,501,312.64	5,982,534.38

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
05949ALH1	\$ 3,136,063.07	\$ -	\$ 3,136,063.07	\$ 3,109,213.69	\$ (26,849.38)	\$ 3,109,213.69	\$ 2,847,287.53
05950HAA9	28,262,827.99	(1,154,765.51)	27,108,062.48	27,038,486.91	(69,575.57)	27,038,486.91	20,120,243.68
06050HKY3	183,898.38	107,785.83	291,684.21	291,680.77	(3.44)	291,680.77	93,668.82
06652DAA7	8,246,372.76	(246,350.64)	8,000,022.12	7,959,884.65	(40,137.47)	7,959,884.65	4,385,454.26
07325HAC9	3,396,421.72	(37,314.22)	3,359,107.50	3,359,107.50	-	3,359,107.50	2,066,435.00
07325VAG9	3,340,344.14	(37,370.28)	3,302,973.86	2,902,615.24	(400,358.62)	2,902,615.24	2,138,970.12
07384MS60	4,802,277.96	(427,276.98)	4,375,000.98	4,367,915.95	(7,085.03)	4,367,915.95	3,674,773.49
07384MV33	56,469.35	149,524.72	205,994.07	214,436.54	8,442.47	214,436.54	236,688.54
073852AA3	4,849,248.05	-	4,849,248.05	4,807,800.46	(41,447.59)	4,807,800.46	4,403,044.26
073852AD7	4,331,840.60	(1,562,111.24)	2,769,729.36	2,164,167.52	(605,561.84)	2,164,167.52	1,627,815.00
073854AB7	15,735,555.94	1,003,379.75	16,738,935.69	15,361,791.55	(1,377,144.14)	15,361,791.55	10,384,084.09
073860AA6	2,827,917.98	(113,353.92)	2,714,564.06	2,623,863.37	(90,700.69)	2,623,863.37	2,211,259.89
073860AB4	3,147,261.45	47,965.59	3,195,227.04	2,841,322.73	(353,904.31)	2,841,322.73	2,075,165.70
07386HCP4	287,255.08	92,493.22	379,748.30	191,434.49	(188,313.81)	191,434.49	69,923.74
07386HEN7	683,827.45	197,897.45	881,724.90	852,425.17	(29,299.73)	852,425.17	183,905.88
07386HHW4	151,576.30	(117,136.18)	34,440.12	28,412.44	(6,027.68)	28,412.44	99,856.91
07386HJL6	380,590.74	51,484.69	432,075.43	424,530.53	(7,544.90)	424,530.53	431,673.79
07386HLU3	53,001.38	(40,308.61)	12,692.77	9,848.96	(2,843.81)	9,848.96	68,639.21
07386HSF9	207,583.40	4,598.76	212,182.16	85,616.79	(126,565.37)	85,616.79	112,096.48
07386HSP7	7,138,266.05	-	7,138,266.05	7,074,398.19	(63,867.86)	7,074,398.19	4,455,205.98
07386HYN5	57,906.24	(21,540.52)	36,365.72	35,975.20	(390.52)	35,975.20	43,711.49
073879PA0	1,587,600.00	313,374.00	1,900,974.00	1,795,558.69	(105,415.31)	1,795,558.69	659,730.00
073879QF8	1,328,399.34	(98,923.77)	1,229,475.57	1,171,121.69	(58,353.88)	1,171,121.69	649,962.49
073879Z92	11,350,187.74	681,869.83	12,032,057.57	11,367,569.79	(664,487.78)	11,367,569.79	4,120,809.48
07387AFA8	407,156.26	(7,974.91)	399,181.35	399,184.06	2.71	399,184.06	247,897.72
07387UHB0	29,857.49	84,717.94	114,575.43	10,137.29	(104,438.14)	10,137.29	95,307.24
07388EAA4	2,648,431.65	(327,186.43)	2,321,245.22	2,087,349.58	(233,895.64)	2,087,349.58	1,569,830.16
07388UAB6	1,894,719.76	(125,738.87)	1,768,980.89	1,597,444.86	(171,536.03)	1,597,444.86	1,308,020.00
07389LAA7	978,764.88	-	978,764.88	951,767.30	(26,997.58)	951,767.30	780,857.51
07389PAY6	671,883.04	(195,194.37)	476,688.67	354,984.94	(121,703.73)	354,984.94	281,451.61
07389VAA5	2,177,866.83	(223,129.66)	1,954,737.17	1,855,577.98	(99,159.19)	1,855,577.98	1,721,263.73
07400XAB4	6,160,794.91	(2,275,619.75)	3,885,175.16	3,600,099.61	(285,075.55)	3,600,099.61	1,783,112.33
07401EAA7	16,539,134.17	(4,399,772.21)	12,139,361.96	11,105,046.49	(1,034,315.47)	11,105,046.49	9,174,680.50
07401LAA1	18,438,834.77	(2,014,958.39)	16,423,876.38	16,423,876.38	-	16,423,876.38	9,280,464.75
07401LAQ6	4,994,293.71	(389,130.39)	4,605,163.32	4,579,487.64	(25,675.68)	4,579,487.64	2,610,532.26
07401LAT0	12,189.72	-	12,189.72	-	(12,189.72)	-	-
07401LBA0	556,503.37	115,133.88	671,637.25	676,731.96	5,094.71	676,731.96	741,652.79
07401UAB9	-	651,320.58	651,320.58	-	(651,320.58)	-	-
07820QAY1	18,863,836.78	(411,968.78)	18,451,868.00	18,352,306.98	(99,561.02)	18,352,306.98	12,499,070.11
07820QBL8	3,376,566.99	(136,328.89)	3,240,238.10	3,233,685.51	(6,552.59)	3,233,685.51	1,818,474.42
078446AB7	151,595.08	33,405.00	185,000.08	166,400.00	(18,600.08)	166,400.00	166,400.00
12489WQE7	1,982,150.96	(88,050.96)	1,894,100.00	1,538,342.85	(355,757.15)	1,538,342.85	813,420.00
12489WQH0	756,130.95	(107,825.17)	648,305.78	103,752.46	(544,553.32)	103,752.46	91,631.00
1248MAAD9	2,541,014.19	(528,869.19)	2,012,145.00	1,433,340.60	(578,804.40)	1,433,340.60	1,679,880.00
1248MEAE9	1,983,024.90	(149,056.65)	1,833,968.25	1,353,070.11	(480,898.14)	1,353,070.11	1,161,082.58
1248MEAG4	1,224,402.87	(51,403.72)	1,172,999.15	955,591.98	(217,407.17)	955,591.98	937,256.20
1248MGAJ3	259,895.47	(5,620.38)	254,275.09	254,246.64	(28.45)	254,246.64	257,087.82
1248RHAD9	4,825,729.33	624,421.61	5,450,150.94	4,688,108.38	(762,042.56)	4,688,108.38	2,622,062.01
12498NAB9	1,639,061.21	(18,936.42)	1,620,124.79	1,463,465.46	(156,659.33)	1,463,465.46	1,169,679.50
12544WAK3	1,396,569.43	(463,642.49)	932,926.94	932,916.32	(10.62)	932,916.32	1,360,197.70
12567AAF4	577,626.82	203,879.63	781,506.45	787,811.24	6,304.79	787,811.24	878,129.07
12627HAN0	-	11,466.84	11,466.84	1,367.93	(10,098.91)	1,367.93	1,683.51
12629EAK1	54,524.12	21,017.46	75,541.58	20,271.04	(55,270.54)	20,271.04	63,138.27
12629EAL9	8,583.86	2,453.62	11,037.48	1,360.90	(9,676.58)	1,360.90	3,134.03
12638PAL3	15,184.14	(438.66)	14,745.48	1,666.44	(13,079.04)	1,666.44	15,146.04
12666XAB3	7,019,185.30	(923,288.60)	6,095,896.70	5,223,181.76	(872,714.94)	5,223,181.76	4,569,055.09
126670HG6	9,352,673.98	-	9,352,673.98	9,355,922.98	3,249.00	9,355,922.98	10,084,815.90
126670JD1	1,863,962.52	(192,104.00)	1,671,858.52	1,574,212.30	(97,646.22)	1,574,212.30	1,283,185.56
126670KN7	1,678,388.88	356,254.93	2,034,643.81	1,882,551.51	(152,092.30)	1,882,551.51	841,961.40
126670LN6	2,415,597.36	626,916.91	3,042,514.27	3,042,514.26	(0.01)	3,042,514.26	1,460,640.00
126670LP1	7,123,064.58	(596,888.59)	6,526,175.99	5,761,620.57	(764,555.42)	5,761,620.57	2,062,295.21
126670PG7	2,444,356.65	610,383.35	3,054,740.00	3,054,739.99	(0.01)	3,054,739.99	973,650.00
126670TU2	203,746.99	(7,048.14)	196,698.85	188,591.24	(8,107.61)	188,591.24	166,127.47
126670WT1	5,701,723.83	(140,685.72)	5,561,038.11	5,410,642.91	(150,395.20)	5,410,642.91	4,024,154.69
12667F2A2	225,614.10	(54,562.89)	171,051.21	170,407.29	(643.92)	170,407.29	57,084.58
12667FBJ3	2,827,064.21	(108,914.75)	2,718,149.46	2,515,383.04	(202,766.42)	2,515,383.04	1,926,746.07
12667FUL7	363,818.07	668,569.98	1,032,388.05	768,054.37	(264,333.68)	768,054.37	362,632.08
12667G4D2	32,994.70	5,056.87	38,051.57	38,064.70	13.13	38,064.70	47,697.12
12667GME0	18,880,537.38	(297,783.85)	18,582,753.53	18,548,991.69	(33,761.84)	18,548,991.69	10,248,733.30
12667GR62	13,052,068.54	(667,748.98)	12,384,319.56	12,339,645.63	(44,673.93)	12,339,645.63	7,945,081.82
12667GRW5	921,422.11	(71,616.46)	849,805.65	823,931.16	(25,874.49)	823,931.16	280,986.90
12667GS20	16,531,807.96	(743,582.23)	15,788,225.73	15,720,911.25	(67,314.48)	15,720,911.25	9,005,883.82

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
12667GWF6	\$ 11,062,552.39	\$ (800,695.78)	\$ 10,261,856.61	\$ 9,789,343.33	\$ (472,513.28)	\$ 9,789,343.33	\$ 5,977,273.89
12667GYX5	1,336,434.97	(59,584.11)	1,276,850.86	1,276,934.26	83.40	1,276,934.26	1,221,145.30
12667NAC2	302,475.15	(34,563.72)	267,911.43	251,911.17	(16,000.26)	251,911.17	202,228.60
126684AC3	3,671,234.92	56,724.11	3,727,959.03	2,519,422.70	(1,208,536.33)	2,519,422.70	2,717,065.70
12668A3Q6	11,532,394.21	(1,224,490.18)	10,307,904.03	10,091,603.67	(216,300.36)	10,091,603.67	3,642,147.56
12668A3V5	11,258.20	3,341.34	14,599.54	6,673.14	(7,926.40)	6,673.14	31,045.27
12668A4B8	18,711,254.76	(1,395,504.10)	17,315,750.66	17,315,750.66	-	17,315,750.66	9,127,366.92
12668A4G7	14,011.78	27,523.14	41,534.92	15,366.29	(26,168.63)	15,366.29	73,212.54
12668AAY1	106,643.39	6,625.29	113,268.68	113,380.18	111.50	113,380.18	183,254.18
12668ACG8	4,998,888.12	(153,482.01)	4,845,406.11	4,845,406.08	(0.03)	4,845,406.08	3,609,924.61
12668ACZ6	4,499,766.63	(173,854.08)	4,325,912.55	4,137,284.50	(188,628.05)	4,137,284.50	2,379,271.66
12668AEV3	15,081,269.65	(829,384.30)	14,251,885.35	13,690,673.49	(561,211.86)	13,690,673.49	8,133,735.72
12668AEZ4	85,623.07	(59,104.31)	26,518.76	26,518.61	(0.15)	26,518.61	84,444.08
12668AFA8	-	30,018.43	30,018.43	30,018.43	-	30,018.43	263,873.71
12668AGW9	3,741,720.38	(345,539.94)	3,396,180.44	3,388,293.64	(7,886.80)	3,388,293.64	2,866,088.17
12668APF6	546,648.54	-	546,648.54	528,509.16	(18,139.38)	528,509.16	389,806.39
12668ATY1	64,981.06	285.75	65,266.81	65,301.40	34.59	65,301.40	96,700.87
12668AUD5	22,947.44	(17,168.66)	5,778.78	5,778.80	0.02	5,778.80	11,618.93
12668AVP7	9,011,861.26	(149,623.93)	8,862,237.33	8,786,969.57	(75,267.76)	8,786,969.57	4,809,012.14
12668AWQ4	63,064.95	(41,182.86)	21,882.09	21,891.84	9.75	21,891.84	76,664.17
12668BAU7	256,515.37	72,316.61	328,831.98	331,444.91	2,612.93	331,444.91	411,142.82
12668BB77	31,401,310.26	(1,312,292.16)	30,089,018.10	27,235,988.98	(2,853,029.12)	27,235,988.98	15,870,222.21
12668BDR1	62,791.96	(34,399.63)	28,392.33	9,544.23	(18,848.10)	9,544.23	77,363.31
12668BE33	17,706,796.02	-	17,706,796.02	16,793,629.68	(913,166.34)	16,793,629.68	8,840,208.91
12668VAB5	-	620,497.66	620,497.66	-	(620,497.66)	-	-
126694A99	16,898.38	(10,895.47)	6,002.91	6,003.39	0.48	6,003.39	17,439.22
126694F86	20,391.45	(15,609.59)	4,781.86	2,247.30	(2,534.56)	2,247.30	18,426.75
126694N46	5,470,899.87	(86,756.35)	5,384,143.52	5,360,641.34	(23,502.18)	5,360,641.34	3,671,788.82
126694P36	13,351.26	(7,740.95)	5,610.31	1,755.02	(3,855.29)	1,755.02	26,949.00
126694YW2	-	8,580.56	8,580.56	3,829.91	(4,750.65)	3,829.91	35,756.56
126694ZB7	92,124.00	(43,841.51)	48,282.49	14,982.76	(33,299.73)	14,982.76	87,298.75
126694ZD3	10,000.05	(6,657.19)	3,342.86	1,305.16	(2,037.70)	1,305.16	9,044.43
12669EJ56	301,531.31	-	301,531.31	286,548.50	(14,982.81)	286,548.50	67,864.28
12669FKR3	304,143.53	(11,418.61)	292,724.92	292,930.75	205.83	292,930.75	281,052.68
12669FP23	926,517.96	(144,719.28)	781,798.68	581,479.73	(200,318.95)	581,479.73	773,778.26
12669FP31	380,634.09	148,409.28	529,043.37	529,599.59	556.22	529,599.59	2,648,192.87
12669FVD2	1,169,620.10	(65,066.69)	1,104,553.41	1,077,602.48	(26,950.93)	1,077,602.48	1,003,245.17
12669FW82	1,314,727.94	(10,002.13)	1,304,725.81	1,287,811.50	(16,914.31)	1,287,811.50	868,963.99
12669GKH3	15,331,821.57	(276,763.61)	15,055,057.96	15,002,316.60	(52,741.36)	15,002,316.60	10,052,878.55
12669GPB1	16,950.71	9,248.94	26,199.65	26,230.15	30.50	26,230.15	53,255.89
12669GRM5	3,911,114.03	(384,606.77)	3,526,507.26	3,513,044.42	(13,462.84)	3,513,044.42	1,780,769.18
12669GRQ6	10,272,369.54	(1,065,274.43)	9,207,095.11	9,207,134.49	39.38	9,207,134.49	4,609,484.89
12669GTV3	467,078.28	-	467,078.28	452,088.33	(14,989.95)	452,088.33	243,610.29
12669GUR0	4,439,724.36	-	4,439,724.36	4,240,384.06	(199,340.30)	4,240,384.06	2,441,775.73
12669GXW6	471,356.95	(139,215.79)	332,141.16	317,212.09	(14,929.07)	317,212.09	463,602.20
14454AAB5	4,471,714.44	(55,600.07)	4,416,114.37	3,857,608.47	(558,505.90)	3,857,608.47	4,164,604.52
172939AB6	15,337.86	-	15,337.86	13,118.45	(2,219.41)	13,118.45	15,336.27
172981AK8	342,521.18	(31,891.65)	310,629.53	310,632.30	2.77	310,632.30	389,038.34
172981AL6	151,789.82	(25,449.25)	126,340.57	126,414.10	73.53	126,414.10	240,485.38
17307G3D8	2,598,040.25	-	2,598,040.25	2,350,810.16	(247,230.09)	2,350,810.16	1,117,297.50
17307GH76	463,195.26	(55,298.08)	407,897.18	407,963.50	66.32	407,963.50	270,268.29
17307GH84	131,176.06	1,655.85	132,831.91	132,825.92	(5.99)	132,825.92	108,707.01
17307GMQ8	8,616,619.66	(505,406.42)	8,111,213.24	8,111,213.24	-	8,111,213.24	7,609,572.61
17307GN79	418,283.59	(315,563.30)	102,720.29	102,725.13	4.84	102,725.13	414,688.77
17307GPE2	18,552,801.73	(4,842,253.54)	13,710,548.19	13,710,548.20	0.01	13,710,548.20	12,283,335.08
17307GPW2	513,103.85	(424,513.73)	88,590.12	88,590.13	0.01	88,590.13	165,726.90
17307GYD4	2,829,465.75	(31,728.82)	2,797,736.93	2,797,736.96	0.03	2,797,736.96	2,803,004.85
17309CAL9	79,993.93	(52,423.25)	27,570.68	10,146.60	(17,424.08)	10,146.60	59,030.30
17309MAB9	13,156,128.34	(395,030.64)	12,761,097.70	10,885,808.42	(1,875,289.28)	10,885,808.42	9,089,032.68
17309MAF0	220,729.10	11,570.76	232,299.86	58,628.93	(173,670.93)	58,628.93	59,073.95
17309NAH4	774,441.64	(174,961.62)	599,480.02	373,732.49	(225,747.53)	373,732.49	1,317,984.39
17309QAC8	9,483,531.50	-	9,483,531.50	9,131,483.87	(352,047.63)	9,131,483.87	6,448,000.00
17309QAM6	9,141.75	-	9,141.75	4,197.12	(4,944.63)	4,197.12	8,836.65
17309RAM4	56,280.88	(4,625.89)	51,654.99	13,656.64	(37,998.35)	13,656.64	73,720.22
17309SAC4	8,925,171.25	(504,005.88)	8,421,165.37	6,941,987.90	(1,479,177.47)	6,941,987.90	5,687,470.00
17309SAM2	4,636.01	4,720.97	9,356.98	2,553.02	(6,803.96)	2,553.02	5,013.99
17309SAN0	7,214.87	(137.27)	7,077.60	1,509.08	(5,568.52)	1,509.08	2,668.08
17309YAJ6	54,564.03	20,288.62	74,852.65	39,911.23	(34,941.42)	39,911.23	114,422.81
17309YAK3	-	28,604.03	28,604.03	4,216.72	(24,387.31)	4,216.72	42,204.10
17310UAE2	51,053.34	(27,826.82)	23,226.52	4,863.91	(18,362.61)	4,863.91	37,520.51
17311FAL8	30,887.23	(21,445.18)	9,442.05	154.36	(9,287.69)	154.36	222,132.05

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
17311YAC7	\$ 3,150,249.53	\$ 480,130.23	\$ 3,630,379.76	\$ 2,862,498.86	\$ (767,880.90)	\$ 2,862,498.86	\$ 2,101,458.18
17312TAH6	1,893,993.95	(226,464.53)	1,667,529.42	1,440,032.26	(227,497.16)	1,440,032.26	1,534,891.53
22540V3F7	1,890,042.00	559,538.77	2,449,580.77	2,449,442.72	(138.05)	2,449,442.72	507,466.40
22540V5D0	115,031.22	(28,738.44)	86,292.78	86,191.16	(101.62)	86,191.16	74,035.85
22540VQ70	899,974.17	236,261.77	1,136,235.94	1,136,235.94	-	1,136,235.94	623,860.28
22541N5E5	1,473,419.26	-	1,473,419.26	1,369,780.86	(103,638.40)	1,369,780.86	691,510.56
22541NBT5	1,074,616.32	347,070.61	1,421,686.93	1,420,919.03	(767.90)	1,420,919.03	859,509.76
22541NFL8	5,118,467.49	(127,761.32)	4,990,706.17	4,990,706.20	0.03	4,990,706.20	2,288,500.02
22541NUB3	2,880,202.96	(91,441.62)	2,788,761.34	2,789,444.82	683.48	2,789,444.82	2,398,709.70
22541Q4M1	663,173.64	613,317.19	1,276,490.83	1,276,344.86	(145.97)	1,276,344.86	618,494.55
22541QDB5	552,429.99	-	552,429.99	541,611.89	(10,818.10)	541,611.89	312,958.91
22541QFK3	481,402.84	(110,640.98)	370,761.86	370,790.64	28.78	370,790.64	331,650.58
22541QJR4	330,174.13	245,780.50	575,954.63	575,938.00	(16.63)	575,938.00	262,950.66
22541QV25	578,646.08	220,527.23	799,173.31	798,461.81	(711.50)	798,461.81	91,246.41
22541SFL7	852.18	(105.66)	746.52	69.29	(677.23)	69.29	510.78
22541SJV1	3,738,393.83	(4,813.15)	3,733,580.68	3,733,580.68	-	3,733,580.68	962,824.24
22541SRC4	434,980.63	93,437.29	528,417.92	528,417.92	-	528,417.92	385,161.77
22541SRZ3	31,598.34	(7,509.28)	24,089.06	12,763.53	(11,325.53)	12,763.53	43,762.64
22541SSD1	314,047.25	(127,205.03)	186,842.22	187,095.50	253.28	187,095.50	865,190.68
22541SXR4	2,613,816.01	(531,847.60)	2,081,968.41	1,786,429.75	(295,538.66)	1,786,429.75	869,884.19
225458RG5	124,076.57	(79,230.82)	44,845.75	44,845.76	0.01	44,845.76	48,115.99
225470C84	82,798.50	(68,343.29)	14,455.21	167.58	(14,287.63)	167.58	6,703.04
225470R70	96,510.45	(53,517.70)	42,992.75	5,549.27	(37,443.48)	5,549.27	63,483.41
225470R88	15,198.33	(5,180.78)	10,017.55	1,203.65	(8,813.90)	1,203.65	10,731.34
2254W0KK0	212,092.46	(310,532.74)	(98,440.28)	(106,103.50)	(7,663.22)	(106,103.50)	145,399.74
2254W0NK7	1,547,996.44	(160,746.35)	1,387,250.09	1,182,221.51	(205,028.58)	1,182,221.51	802,850.58
22943HAD8	14,216,322.80	(597,627.00)	13,618,695.80	12,658,026.12	(960,669.68)	12,658,026.12	7,054,053.00
22943HAK2	30,517.90	15,690.33	46,208.23	201.96	(46,006.27)	201.96	8,097.82
23242TAB2	4,953,226.88	(301,664.83)	4,651,562.05	4,063,349.86	(588,212.19)	4,063,349.86	3,404,713.15
23243AAD8	1,565,156.10	(124,145.33)	1,441,010.77	1,293,891.82	(147,118.95)	1,293,891.82	743,267.56
23244FAM6	24,363.20	(20,376.13)	3,987.07	88.50	(3,898.57)	88.50	31,646.43
23244LAB7	4,296,125.45	(919,083.73)	3,377,041.72	2,921,778.81	(455,262.91)	2,921,778.81	2,582,580.00
23245QAA7	2,760,260.16	(106,228.45)	2,654,031.71	2,609,924.65	(44,107.06)	2,609,924.65	1,467,295.67
23248AAJ0	1,565,856.87	(105,779.76)	1,460,077.11	1,301,324.71	(158,752.40)	1,301,324.71	1,068,942.12
23332UAC8	5,807,742.68	(13,168.35)	5,794,574.33	5,741,469.60	(53,104.73)	5,741,469.60	3,866,071.61
23332UAR5	10,467,214.03	(18,172.73)	10,449,041.30	10,449,041.30	-	10,449,041.30	6,182,658.05
23332UAS3	277,932.48	-	277,932.48	206,727.94	(71,204.54)	206,727.94	65,384.78
23332UBV5	7,460,439.38	(479,169.10)	6,981,270.28	6,981,270.28	-	6,981,270.28	4,313,808.10
23332UCM4	658,612.31	-	658,612.31	643,759.22	(14,853.09)	643,759.22	401,892.70
23332UDU5	22,851,604.71	(656,343.79)	22,195,260.92	22,100,532.47	(94,728.45)	22,100,532.47	13,289,579.24
23332UFV1	1,605,962.27	(74,651.56)	1,531,310.71	1,531,310.71	-	1,531,310.71	843,104.65
251508AB3	12,475,288.19	(297,899.32)	12,177,388.87	10,617,465.44	(1,559,923.43)	10,617,465.44	6,145,035.48
25150PAD1	32,778.73	(16,297.96)	16,480.77	1,959.61	(14,521.16)	1,959.61	4,542.36
251510FB4	8,549,333.83	(194,897.70)	8,354,436.13	7,642,454.65	(711,981.48)	7,642,454.65	5,761,634.00
251510FL2	159,899.64	-	159,899.64	156,803.09	(3,096.55)	156,803.09	227,998.74
251510HS5	13,603,006.39	(1,103,261.72)	12,499,744.67	12,076,035.59	(423,709.08)	12,076,035.59	8,439,838.24
251510NB5	6,034,679.55	-	6,034,679.55	5,767,870.03	(266,809.52)	5,767,870.03	3,683,705.40
251510NC3	8,740,923.18	5,593,334.86	14,334,258.04	14,334,258.03	(0.01)	14,334,258.03	2,968,247.91
25151AAA9	4,856,137.55	2,503,372.19	7,359,509.74	6,689,907.58	(669,602.16)	6,689,907.58	3,929,711.54
251563DR0	102,525.63	(50,707.75)	51,817.88	32,476.26	(19,341.62)	32,476.26	102,321.81
26248PMM0	10,997.67	-	10,997.67	2,416.74	(8,580.93)	2,416.74	5,730.01
26410MAF7	5,233,856.64	(2,757,559.00)	2,476,297.64	2,700,672.60	224,374.96	2,700,672.60	527,148.00
26410WAD0	3,213,269.77	413,203.94	3,626,473.71	3,097,151.46	(529,322.25)	3,097,151.46	866,615.50
26441EAC5	401,016.00	(116,766.00)	284,250.00	284,250.00	-	284,250.00	175,000.00
26441NAA9	-	53,400.00	53,400.00	16,200.00	(37,200.00)	16,200.00	16,200.00
26441NAB7	-	31,000.00	31,000.00	10,800.00	(20,200.00)	10,800.00	10,800.00
29108PAB0	(134,092.48)	2,264,092.48	2,130,000.00	2,130,000.00	-	2,130,000.00	1,100,000.00
30247DAD3	2,051,017.09	(1,137,411.77)	913,605.32	845,088.51	(68,516.81)	845,088.51	1,000,034.00
316599AB5	140,483.38	-	140,483.38	136,159.33	(4,324.05)	136,159.33	131,868.91
31678UAA7	289,345.77	159,741.30	449,087.07	448,714.56	(372.51)	448,714.56	228,687.27
318340AB2	1,106,527.87	449,771.16	1,556,299.03	1,315,378.39	(240,920.64)	1,315,378.39	611,000.01
32027NLM1	10,391.79	(1,561.24)	8,830.55	8,830.55	-	8,830.55	9,161.00
32051DCK6	563,580.03	-	563,580.03	552,360.05	(11,219.98)	552,360.05	551,934.49
32051DRA2	115,648.30	-	115,648.30	109,462.89	(6,185.41)	109,462.89	101,136.64
32051DV33	794,995.19	(53,051.26)	741,943.93	742,001.26	57.33	742,001.26	631,716.89
32051GBV6	195,657.25	-	195,657.25	190,371.32	(5,285.93)	190,371.32	247,779.49
32051GCF0	554,677.61	(231,053.37)	323,624.24	260,229.45	(63,394.79)	260,229.45	479,396.76
32051GFF7	114,141.34	(49,374.38)	64,766.96	38,252.95	(26,514.01)	38,252.95	44,989.43
32051GVN2	3,821,650.34	-	3,821,650.34	3,791,624.29	(30,026.05)	3,791,624.29	3,605,696.38
32051GZS7	7,648,650.03	(484,876.35)	7,163,773.68	6,908,445.51	(255,328.17)	6,908,445.51	5,687,933.60
32052CAD5	187.27	-	187.27	-	(187.27)	-	-
32056CAH2	18,026,259.76	(719,438.20)	17,306,821.56	17,195,946.42	(110,875.14)	17,195,946.42	13,160,090.74

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
32113JAA3	\$ 745,161.46	\$ -	\$ 745,161.46	\$ 730,438.24	\$ (14,723.22)	\$ 730,438.24	\$ 399,219.66
32113JBV6	690,144.22	(368,021.55)	322,122.67	228,030.96	(94,091.71)	228,030.96	118,856.40
35729RAE6	10,399,373.35	(270,043.94)	10,129,329.41	7,883,777.67	(2,245,551.74)	7,883,777.67	8,255,183.02
35952Z007	12,597,726.70	(4,238,353.77)	8,359,372.93	8,065,469.68	(293,903.25)	8,065,469.68	2,239,090.41
35952Z023	10,157,208.88	(3,420,733.95)	6,736,474.93	6,509,562.83	(226,912.10)	6,509,562.83	1,725,443.26
35952Z031	10,918,604.98	(3,621,147.46)	7,297,457.52	6,890,943.13	(406,514.39)	6,890,943.13	1,698,588.00
35952Z049	9,616,866.38	(3,111,100.34)	6,505,766.04	5,920,336.51	(585,429.53)	5,920,336.51	1,433,549.70
35952Z056	9,823,862.10	(3,161,367.50)	6,662,494.60	6,015,993.51	(646,501.09)	6,015,993.51	1,367,656.20
35952Z064	10,038,057.69	(3,213,383.11)	6,824,674.58	6,114,977.70	(709,696.88)	6,114,977.70	1,448,192.70
35952ZA06	27,551,645.51	(13,015,358.19)	14,536,287.32	11,259,327.99	(3,276,959.33)	11,259,327.99	3,837,485.15
35952ZA14	1,310,604.18	(608,032.74)	702,571.44	525,997.05	(176,574.39)	525,997.05	172,084.53
35952ZA22	2,174,056.20	(1,016,132.73)	1,157,923.47	879,036.25	(278,887.22)	879,036.25	266,455.75
36228FU38	133,252.51	(23,408.35)	109,844.16	110,225.32	381.16	110,225.32	135,474.16
362334EB6	11,750,921.86	(409,585.78)	11,341,336.08	10,432,832.98	(908,503.10)	10,432,832.98	7,905,838.40
362334FS8	1,498,434.51	(52,548.01)	1,445,886.50	1,268,784.30	(177,102.20)	1,268,784.30	896,004.31
362341SG5	973,759.47	(251,383.68)	722,375.79	722,619.50	243.71	722,619.50	841,148.33
362341VU0	22,216,825.75	(706,260.26)	21,510,565.49	21,510,565.56	0.07	21,510,565.56	14,506,947.50
362341XE4	24,725,080.51	(1,120,609.69)	23,604,470.82	23,619,213.22	14,742.40	23,619,213.22	20,524,915.29
36242D3Z4	99,672.30	18,970.87	118,643.17	57,525.76	(61,117.41)	57,525.76	37,989.60
36242DBY8	1,514,752.44	(11,567.69)	1,503,184.75	1,503,222.82	38.07	1,503,222.82	1,542,213.75
36242DBZ5	736,203.43	(295,389.29)	440,814.14	431,349.89	(9,464.25)	431,349.89	174,847.45
36242DGA5	255,499.68	(78,936.04)	176,563.64	131,227.71	(45,335.93)	131,227.71	109,513.40
362437AC9	2,904,701.65	-	2,904,701.65	2,766,512.29	(138,189.36)	2,766,512.29	2,200,124.57
36244LAA1	3,592,536.98	(35,823.51)	3,556,713.47	3,346,055.90	(210,657.57)	3,346,055.90	2,781,928.22
362480AD7	20,578,094.31	(1,551,939.62)	19,026,154.69	17,271,484.62	(1,754,670.07)	17,271,484.62	10,506,726.52
38012UAA7	702,306.52	(135,212.34)	567,094.18	567,094.18	-	567,094.18	463,963.48
39538AAN6	112,699.15	(42,873.56)	69,825.59	6,620.32	(63,205.27)	6,620.32	46,850.28
39538RAB5	12,822,232.56	(211,618.14)	12,610,614.42	12,610,614.42	-	12,610,614.42	6,530,042.45
39538RBB4	14,678,426.13	-	14,678,426.13	14,242,584.03	(435,842.10)	14,242,584.03	7,704,968.48
39538WBH0	18,553.24	(5,118.63)	13,434.61	12,049.27	(1,385.34)	12,049.27	10,356.98
39538WEU8	40,208.50	(8,527.45)	31,681.05	1,855.69	(29,825.36)	1,855.69	18,233.47
39538WFH6	12,189,549.72	(450,769.55)	11,738,780.17	11,497,667.50	(241,112.67)	11,497,667.50	5,790,767.49
39538WHF8	35,953,806.23	(2,193,286.66)	33,760,519.57	33,038,438.02	(722,081.55)	33,038,438.02	17,810,559.51
39539GAA0	5,782,377.38	-	5,782,377.38	5,687,762.28	(94,615.10)	5,687,762.28	3,254,887.46
40430HAJ7	224,963.40	(53,507.84)	171,455.56	68,648.39	(102,807.17)	68,648.39	51,328.98
40430HBH0	26,420.54	6,245.24	32,665.78	6,438.06	(26,227.72)	6,438.06	8,564.40
40430HBJ6	1,430.41	10,873.51	12,303.92	2,561.10	(9,742.82)	2,561.10	3,899.46
40430HCQ9	17,350.80	(9,836.80)	7,514.00	3,267.41	(4,246.59)	3,267.41	10,485.80
40430HDC9	1,851,099.68	-	1,851,099.68	1,792,320.84	(58,778.84)	1,792,320.84	1,382,382.87
40430HEB0	63,957.60	(12,947.84)	51,009.76	40,225.13	(10,784.63)	40,225.13	60,728.90
40430HFL7	1,956,176.05	-	1,956,176.05	1,906,241.76	(49,934.29)	1,906,241.76	1,318,660.00
40430MAB3	774,684.30	-	774,684.30	498,323.78	(276,360.52)	498,323.78	427,663.10
40430VAG2	8,658,131.22	1,992,799.59	10,650,930.81	10,650,930.84	0.03	10,650,930.84	6,347,544.39
40430YAD3	1,120,844.61	476,051.43	1,596,896.04	1,595,797.52	(1,098.52)	1,595,797.52	1,032,149.37
40431HAT4	36,041.61	(675.07)	35,366.54	3,884.33	(31,482.21)	3,884.33	47,067.21
40431KAA8	218,202.31	-	218,202.31	199,872.54	(18,329.77)	199,872.54	171,190.71
40431KAE0	7,121,578.31	(179,682.76)	6,941,895.55	5,616,940.27	(1,324,955.28)	5,616,940.27	4,391,833.37
40431KAL4	-	29,984.05	29,984.05	356.28	(29,627.77)	356.28	39,389.28
40431KAN0	3,059.18	(2,656.02)	403.16	7.99	(395.17)	7.99	5,149.68
40431RAN5	42,004.00	(25,007.00)	16,997.00	7,087.43	(9,909.57)	7,087.43	40,890.00
40431XAE2	5,000,000.00	(561,010.00)	4,438,990.00	3,669,719.88	(769,270.12)	3,669,719.88	2,298,750.00
40431XAF9	1,652,330.35	(203,975.66)	1,448,354.69	1,186,537.22	(261,817.47)	1,186,537.22	2,520,998.43
41161PA86	2,172,925.09	(184,140.35)	1,988,784.74	1,982,904.87	(5,879.87)	1,982,904.87	1,517,659.57
41161PFR9	1,486,451.33	(24,007.88)	1,462,443.45	1,462,165.21	(278.24)	1,462,165.21	948,636.14
41161PH55	42,645.44	(24,922.09)	17,723.35	3,658.60	(14,064.75)	3,658.60	54,018.22
41161PHC0	8,923,425.56	-	8,923,425.56	8,884,066.38	(39,359.18)	8,884,066.38	5,672,667.45
41161PHU0	8,601,760.49	(145,308.40)	8,456,452.09	8,430,019.21	(26,432.88)	8,430,019.21	5,932,136.36
41161PHZ9	70,913.71	82,797.01	153,710.72	153,889.42	178.70	153,889.42	180,593.67
41161PKH5	757,675.22	(22,173.52)	735,501.70	725,024.85	(10,476.85)	725,024.85	396,503.30
41161PL43	24,615,331.86	(2,590,119.02)	22,025,212.84	21,612,784.20	(412,428.64)	21,612,784.20	11,709,148.24
41161PLR2	14,244,717.90	(385,166.07)	13,859,551.83	13,825,335.74	(34,216.09)	13,825,335.74	8,366,287.54
41161PMG5	17,253,098.35	(435,416.46)	16,817,681.89	16,726,726.35	(90,955.54)	16,726,726.35	9,864,976.57
41161PQU0	15,032,844.26	(509,899.05)	14,522,945.21	14,404,648.24	(118,296.97)	14,404,648.24	8,046,381.00
41161PSC8	187,355.22	(104,485.09)	82,870.13	33,906.46	(48,963.67)	33,906.46	128,673.17
41161PTN3	2,488,737.90	-	2,488,737.90	2,403,295.01	(85,442.89)	2,403,295.01	1,429,172.80
41161PTP8	1,047,870.97	(49,765.79)	998,105.18	894,911.80	(103,193.38)	894,911.80	381,718.55
41161PW85	8,018,119.10	(221,789.19)	7,796,329.91	7,739,206.28	(57,123.63)	7,739,206.28	4,267,591.76
41161PXH1	920,291.74	-	920,291.74	916,897.69	(3,394.05)	916,897.69	556,437.84
41161PZR7	118,106.83	(67,955.53)	50,151.30	50,150.84	(0.46)	50,150.84	144,552.84
41162DAF6	11,701,738.11	(661,584.41)	11,040,153.70	11,040,153.68	(0.02)	11,040,153.68	6,862,911.53
41164LAB5	17,946,999.15	(161,791.91)	17,785,207.24	16,997,897.58	(787,309.66)	16,997,897.58	8,449,856.09
43739EAP2	22,961,392.55	(820,456.47)	22,140,936.08	22,140,936.08	-	22,140,936.08	12,892,201.96

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
43739EBJ5	\$ 10,261,824.53	\$ -	\$ 10,261,824.53	\$ 10,189,859.48	\$ (71,965.05)	\$ 10,189,859.48	\$ 7,276,570.28
43739EBS5	10,255,869.16	-	10,255,869.16	10,210,251.89	(45,617.27)	10,210,251.89	6,956,810.14
44328AAB6	110,785.78	-	110,785.78	97,220.60	(13,565.18)	97,220.60	91,241.98
45071KDD3	2,258,869.68	(21,618.04)	2,237,251.64	1,959,951.95	(277,299.69)	1,959,951.95	1,845,852.93
45254NHV2	371,610.30	-	371,610.30	367,980.49	(3,629.81)	367,980.49	123,297.15
45254NJJG3	1,549,447.63	(6,571.48)	1,542,876.15	1,538,876.76	(3,999.39)	1,538,876.76	928,880.28
45254NJK4	263,296.35	-	263,296.35	248,823.16	(14,473.19)	248,823.16	227,276.45
45254NJP3	205,413.04	36,624.01	242,037.05	217,461.32	(24,575.73)	217,461.32	80,537.81
45254NJV0	1,138,070.34	(9,708.64)	1,128,361.70	1,128,361.70	-	1,128,361.70	788,426.01
45254NJJX6	292,353.93	6,584.43	298,938.36	298,704.57	(233.79)	298,704.57	289,072.22
45254NKA4	495,568.65	(65,119.76)	430,448.89	431,215.66	766.77	431,215.66	321,464.99
45254NKD8	4,629,985.41	-	4,629,985.41	4,626,242.43	(3,742.98)	4,626,242.43	3,429,700.17
45254NKF3	5,907,974.72	(4,269.54)	5,903,705.18	5,903,705.18	-	5,903,705.18	4,022,194.93
45254NKK2	283,289.05	(174,576.02)	108,713.03	107,138.87	(1,574.16)	107,138.87	60,564.22
45254NKK4	7,161,988.36	(10,938.73)	7,151,049.63	7,000,982.48	(150,067.15)	7,000,982.48	4,810,195.34
45254NNP8	15,300,516.98	(58,004.25)	15,242,512.73	14,916,899.98	(325,612.75)	14,916,899.98	9,037,984.78
45254NPA9	17,242,032.23	(21,220.96)	17,220,811.27	17,188,650.63	(32,160.64)	17,188,650.63	11,291,071.24
45254NPG6	1,824,326.79	68,839.48	1,893,166.27	1,499,661.60	(393,504.67)	1,499,661.60	784,659.56
45254NPU5	6,143,726.31	(56,958.49)	6,086,767.82	6,081,734.04	(5,033.78)	6,081,734.04	3,455,846.04
45254TMK7	103,933.71	44,404.56	148,338.27	148,251.52	(86.75)	148,251.52	58,150.97
45254TSM7	5,134,958.75	-	5,134,958.75	4,904,216.59	(230,742.16)	4,904,216.59	2,203,345.32
45254TTM6	7,821,649.09	3,574,764.87	11,396,413.96	11,392,853.15	(3,560.81)	11,392,853.15	114,739.03
452570AA2	108,099.32	(11,936.08)	96,163.24	96,163.25	0.01	96,163.25	70,513.16
45257EAA2	7,076,387.15	(332,234.94)	6,744,152.21	6,379,410.87	(364,741.34)	6,379,410.87	2,700,786.82
45660L4P1	621,804.05	(133,988.47)	487,815.58	57,105.29	(430,710.29)	57,105.29	1,083,035.37
45660L4Q9	384,064.65	(251,714.72)	132,349.93	979.46	(131,370.47)	979.46	42,763.04
45660LAU3	198,143.26	-	198,143.26	171,417.93	(26,725.33)	171,417.93	166,005.65
45660LCN7	7,169,685.04	(373,021.18)	6,796,663.86	6,776,094.11	(20,569.75)	6,776,094.11	3,622,615.51
45660LGX1	178,224.04	(114,519.62)	63,704.42	63,704.11	(0.31)	63,704.11	72,065.00
45660LKW8	29,413,454.36	-	29,413,454.36	29,030,201.20	(383,253.16)	29,030,201.20	15,624,210.43
45660LNB1	411,659.39	8,529.99	420,189.38	327,147.44	(93,041.94)	327,147.44	236,660.48
45660LR84	279,459.32	(212,446.68)	67,012.64	17,959.47	(49,053.17)	17,959.47	126,578.07
45660LVD8	46,323.44	5,215.42	51,538.86	32,328.46	(19,210.40)	32,328.46	44,144.81
45660LW96	4,663,844.83	(200,285.25)	4,463,559.58	4,362,887.12	(100,672.46)	4,362,887.12	2,225,089.04
45660LWD7	5,091,502.81	(1,201,715.18)	3,889,787.63	3,884,344.71	(5,442.92)	3,884,344.71	2,954,382.62
45660LYW3	5,853,501.88	(131,428.11)	5,722,073.77	5,391,847.32	(330,226.45)	5,391,847.32	2,803,125.90
45660N2J3	6,372,718.41	(42,070.33)	6,330,648.08	6,179,827.90	(150,820.18)	6,179,827.90	3,707,712.83
45660N5H4	7,613,450.26	(85,652.21)	7,527,798.05	7,335,159.95	(192,638.10)	7,335,159.95	5,136,644.66
45660N7R0	297,682.97	(38,427.25)	259,255.72	125,824.32	(133,431.40)	125,824.32	121,149.00
45660NM44	270,353.97	12,515.17	282,869.14	283,563.82	694.68	283,563.82	456,915.03
45660NQ24	2,708,860.47	(143,975.78)	2,564,884.69	2,543,474.90	(21,409.79)	2,543,474.90	2,131,329.60
45660NRB3	721,448.94	390,163.68	1,111,612.62	1,111,448.99	(163.63)	1,111,448.99	561,917.32
45660NS30	3,078,528.74	(5,877.59)	3,072,651.15	3,039,838.61	(32,812.54)	3,039,838.61	1,572,367.56
45660NT96	3,452,909.04	-	3,452,909.04	3,384,296.00	(68,613.04)	3,384,296.00	2,624,022.47
456612AC4	21,551,229.32	(716,844.00)	20,834,385.32	20,836,618.72	2,233.40	20,836,618.72	11,326,676.00
45661EAA2	424,264.23	(41,654.37)	382,609.86	382,609.84	(0.02)	382,609.84	296,062.18
45661EAM6	(15,929.66)	-	(15,929.66)	-	15,929.66	-	-
45661LAG3	4,656,310.95	2,674,595.53	7,330,906.48	6,982,957.06	(347,949.42)	6,982,957.06	4,222,057.95
45661XAK8	(2,861.52)	-	(2,861.52)	-	2,861.52	-	-
45662BAJ8	150,566.18	(31,994.75)	118,571.43	118,571.43	-	118,571.43	96,138.02
45664BAE7	125,574.24	(4,872.64)	120,701.60	32,217.23	(88,484.37)	32,217.23	59,179.35
45664BAF4	14,896.53	-	14,896.53	151.42	(14,745.11)	151.42	16,400.35
45667QAJ0	152,815.71	(110,494.63)	42,321.08	23,470.58	(18,850.50)	23,470.58	58,765.38
45667WAA6	5,791,497.51	-	5,791,497.51	5,738,173.98	(53,323.53)	5,738,173.98	3,396,490.07
45667WAC2	1,061,712.03	-	1,061,712.03	912,641.26	(149,070.77)	912,641.26	597,113.27
45667WAJ7	15,267.62	(8,676.62)	6,591.00	2,073.04	(4,517.96)	2,073.04	14,553.23
45668WAE7	617,686.02	126,591.46	744,277.48	689,250.87	(55,026.61)	689,250.87	407,227.90
464125AC7	2,049,608.69	(451,355.39)	1,598,253.30	1,411,834.09	(186,419.21)	1,411,834.09	1,545,252.80
464126BW0	518,562.49	160,365.74	678,928.23	678,104.61	(823.62)	678,104.61	315,144.13
46412AAD4	4,426,669.31	(304,691.87)	4,121,977.44	4,121,977.45	0.01	4,121,977.45	3,228,660.50
466247NC3	763,348.41	496,069.23	1,259,417.64	714,519.49	(544,898.15)	714,519.49	509,267.65
466247XE8	8,378,386.49	(401,760.29)	7,976,626.20	7,557,818.41	(418,807.79)	7,557,818.41	4,957,619.01
46627MBQ9	14,793,717.92	(35,993.12)	14,757,724.80	14,588,991.65	(168,733.15)	14,588,991.65	9,339,570.00
46627MCS4	10,523,089.43	(724,672.55)	9,798,416.88	9,473,967.41	(324,449.47)	9,473,967.41	5,291,066.21
466284AG1	6,110.02	(3,489.00)	2,621.02	484.50	(2,136.52)	484.50	1,009.63
466286AH4	11,833.06	(9,643.85)	2,189.21	307.91	(1,881.30)	307.91	961.44
46629BAR0	4,307,876.98	(183,067.00)	4,124,809.98	3,387,847.38	(736,962.60)	3,387,847.38	3,528,750.00
46629NAC7	542,935.82	-	542,935.82	516,494.29	(26,441.53)	516,494.29	456,010.55
46629QAF7	39,647.40	(5,173.40)	34,474.00	13,880.46	(20,593.54)	13,880.46	34,246.00
46629QAU0	2,021,995.44	(38,863.00)	1,983,132.44	1,464,528.27	(518,604.17)	1,464,528.27	946,687.50
46629QBE5	9,013.40	-	9,013.40	1,755.71	(7,257.69)	1,755.71	4,614.60
46629QBF2	34,532.60	(23,878.43)	10,654.17	2,537.57	(8,116.60)	2,537.57	33,421.51

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
46629TAP5	\$ 28,239.94	\$ 10,415.06	\$ 38,655.00	\$ 15,869.93	\$ (22,785.07)	\$ 15,869.93	\$ 77,296.00
46630CAC8	4,241,516.15	(239,120.51)	4,002,395.64	2,599,205.87	(1,403,189.77)	2,599,205.87	1,434,450.00
46630KAA4	1,953,316.24	(27,452.89)	1,925,863.35	1,740,643.15	(185,220.20)	1,740,643.15	1,416,365.51
52520MFT5	237,961.35	(69,153.80)	168,807.55	168,807.55	-	168,807.55	238,233.86
525221AW7	921,355.00	(667,600.19)	253,754.81	253,754.83	0.02	253,754.83	281,904.66
525221CD7	559,421.41	439,062.21	998,483.62	716,769.44	(281,714.18)	716,769.44	107,768.85
525221CE5	25,395.30	(11,082.18)	14,313.12	2,210.30	(12,102.82)	2,210.30	29,920.68
525221DV6	(8,775.38)	(12,813.42)	(21,588.80)	6,163.77	27,752.57	6,163.77	120,038.30
525221EN3	17,867,814.42	(1,222,548.02)	16,645,266.40	16,648,455.09	3,188.69	16,648,455.09	6,258,112.24
525221EY9	24,237.30	(18,781.92)	5,455.38	954.24	(4,501.14)	954.24	13,268.11
525221FE2	477.59	13,051.50	13,529.09	7,720.86	(5,808.23)	7,720.86	14,072.47
525221GK7	55,878.89	11,810.83	67,689.72	90.06	(67,599.66)	90.06	5,867.58
525221GM3	4,216,698.22	(243,581.79)	3,973,116.43	3,973,116.43	-	3,973,116.43	2,143,094.71
525221GW1	13,735.93	-	13,735.93	-	(13,735.93)	-	-
525221HA8	31,302,771.71	(3,924,129.91)	27,378,641.80	27,376,530.02	(2,111.78)	27,376,530.02	16,220,806.10
525221HK6	-	8,712.03	8,712.03	1,771.39	(6,940.64)	1,771.39	1,685.89
525221JA6	185,398.14	216,678.63	402,076.77	116,346.84	(285,729.93)	116,346.84	327,869.02
525226AL0	2,041,436.93	(881,883.17)	1,159,553.76	1,055,302.54	(104,251.22)	1,055,302.54	105,672.00
525229AG5	3,305,832.31	(1,374,579.22)	1,931,253.09	1,931,253.09	-	1,931,253.09	1,452,438.93
52522DAZ4	493.42	-	493.42	-	(493.42)	-	-
52522GAQ7	7,948.99	-	7,948.99	-	(7,948.99)	-	-
52524VAG4	16,012,291.61	(703,565.77)	15,308,725.84	14,880,794.38	(427,931.46)	14,880,794.38	8,310,209.38
52524YAF0	15,541,301.08	(1,360,381.05)	14,180,920.03	13,987,390.02	(193,530.01)	13,987,390.02	7,172,764.08
550279AA1	6,274,777.90	(236,352.07)	6,038,425.83	5,719,975.04	(318,450.79)	5,719,975.04	3,305,180.21
55027AAR1	16,288,890.63	(1,244,157.03)	15,044,733.60	14,831,783.35	(212,950.25)	14,831,783.35	8,697,837.47
55027AAU4	7,186,788.15	(614,901.60)	6,571,886.55	6,443,807.17	(128,079.38)	6,443,807.17	2,962,638.41
55027BAA6	20,955,333.39	(2,254,332.44)	18,701,000.95	17,758,278.13	(942,722.82)	17,758,278.13	8,466,012.75
55275NBB6	8,250.00	-	8,250.00	-	(8,250.00)	-	-
56119LAG8	4,723,808.83	(1,877,459.94)	2,846,348.89	1,531,598.40	(1,314,750.49)	1,531,598.40	146,430.00
576429AL8	19,711.56	(11,899.96)	7,811.60	6,301.40	(1,510.20)	6,301.40	32,665.19
576433E44	297,366.84	(76,658.37)	220,708.47	220,708.46	(0.01)	220,708.46	272,937.67
576433G42	10,652,312.45	(163,453.73)	10,488,858.72	10,412,833.49	(76,025.23)	10,412,833.49	5,566,969.49
576433H33	6,372,422.22	(392,290.83)	5,980,131.39	5,972,733.59	(7,397.80)	5,972,733.59	4,252,420.19
576433KG0	611,574.23	409,654.00	1,021,228.23	1,021,228.23	-	1,021,228.23	542,404.20
576433NH5	4,864,250.80	(932,638.83)	3,931,611.97	3,738,615.28	(192,996.69)	3,738,615.28	2,184,145.84
576433RU2	1,564,814.22	1,198,608.89	2,763,423.11	2,311,546.71	(451,876.40)	2,311,546.71	834,300.00
576433SE7	1,210,379.66	779,554.36	1,989,934.02	1,858,572.37	(131,361.65)	1,858,572.37	394,640.00
576433WZ5	2,716,809.47	(27,281.63)	2,689,527.84	2,689,527.83	(0.01)	2,689,527.83	2,741,425.34
576436CV9	721,026.64	(4,537.22)	716,489.42	654,247.18	(62,242.24)	654,247.18	443,794.43
57643AAA8	945,496.45	(82,062.60)	863,433.85	770,147.78	(93,286.07)	770,147.78	561,189.50
57643LMP8	2,789,386.65	(231,738.57)	2,557,648.08	1,993,072.89	(564,575.19)	1,993,072.89	990,090.30
576444AA1	-	(779.65)	(779.65)	(779.62)	0.03	(779.62)	-
589929D62	124,182.59	(54.60)	124,127.99	124,127.89	(0.10)	124,127.89	113,199.46
59020UAA3	258,104.69	(17,427.80)	240,676.89	241,216.22	539.33	241,216.22	258,055.41
59020UHP3	1,052,530.18	(38,769.78)	1,013,760.40	1,013,918.12	157.72	1,013,918.12	1,551,002.30
59020UQ57	3,985,091.88	(179,447.86)	3,805,644.02	3,709,559.79	(96,084.23)	3,709,559.79	1,886,796.00
59020UTL9	1,301,661.36	(250,222.66)	1,051,438.70	1,051,438.71	0.01	1,051,438.71	569,601.48
59020UXN0	988,984.54	(503,824.31)	485,160.23	337,980.13	(147,180.10)	337,980.13	343,243.94
590212AB2	374,387.65	(1,410.69)	372,976.96	283,938.22	(89,038.74)	283,938.22	240,738.19
59023WAG3	95,554.26	(20,280.06)	75,274.20	32,000.47	(43,273.73)	32,000.47	100,682.69
59024EAD9	3,325,725.45	335,633.92	3,661,359.37	2,550,410.90	(1,110,948.47)	2,550,410.90	2,626,032.47
59024UAB7	2,032,019.76	(1,128.09)	2,030,891.67	1,744,959.31	(285,932.36)	1,744,959.31	1,492,947.00
59024WAF4	441,002.12	(18,363.18)	422,638.94	422,639.40	0.46	422,639.40	30,981.59
61748HAA9	29,279.95	(72.49)	29,207.46	29,212.42	4.96	29,212.42	26,883.97
61748HRF0	144,755.20	(48,244.69)	96,510.51	12,607.65	(83,902.86)	12,607.65	2,570.55
61749BAB9	945,603.73	(5,384.35)	940,219.38	856,972.03	(83,247.35)	856,972.03	658,881.87
61749BAP8	2,417.08	(1,382.60)	1,034.48	789.67	(244.81)	789.67	2,192.23
61750FAE0	880,066.92	31,010.99	911,077.91	739,608.63	(171,469.28)	739,608.63	504,449.35
61750MAB1	115,988.62	-	115,988.62	106,384.19	(9,604.43)	106,384.19	111,448.07
61750SAB8	1,290,522.75	(5,100.27)	1,285,422.48	1,163,864.67	(121,557.81)	1,163,864.67	1,071,294.30
61751JQA4	38,767.09	19,560.54	58,327.63	24,575.78	(33,751.85)	24,575.78	47,181.32
617526AE8	476,968.44	(46,120.06)	430,848.38	330,663.44	(100,184.94)	330,663.44	246,923.38
61753KAB2	559,208.71	(774.82)	558,433.89	509,549.80	(48,884.09)	509,549.80	515,564.98
61753VAG7	-	2,766.48	2,766.48	1,369.53	(1,396.95)	1,369.53	2,887.04
61755AAB2	49,506.96	(442.13)	49,064.83	45,196.99	(3,867.84)	45,196.99	38,362.28
61755FAE5	37,534.44	(10,214.31)	27,320.13	13,795.30	(13,524.83)	13,795.30	10,768.38
61757MAB4	3,913,561.13	(835,075.75)	3,078,485.38	2,414,468.28	(664,017.10)	2,414,468.28	2,422,750.88
61915RAX4	2,201,640.30	-	2,201,640.30	1,339,676.66	(861,963.64)	1,339,676.66	1,614,302.59
61915RAZ9	11,829.77	148,828.39	160,658.16	111,861.95	(48,796.21)	111,861.95	33,803.15
61915RBB1	9,308,158.67	(625,806.12)	8,682,352.55	8,387,760.09	(294,592.46)	8,387,760.09	4,986,896.17
61915RBZ8	1,409,159.00	(272,420.17)	1,136,738.83	1,057,232.52	(79,506.31)	1,057,232.52	650,326.10

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
638728AC9	\$ 3,259,817.85	\$ (22,890.34)	\$ 3,236,927.51	\$ 2,529,371.10	\$ (707,556.41)	\$ 2,529,371.10	\$ 2,030,692.06
638728AF2	18,561.91	-	18,561.91	-	(18,561.91)	-	-
64352VLH2	2,532,571.71	582,801.90	3,115,373.61	3,115,373.60	(0.01)	3,115,373.60	2,292,240.57
64352VPC9	43,123.92	5,242.88	48,366.80	13,538.07	(34,828.73)	13,538.07	12,812.60
64352VQR5	9,931,486.08	(168,524.05)	9,762,962.03	7,679,198.67	(2,083,763.36)	7,679,198.67	6,518,578.40
65106FAB8	14,263,605.35	(22,735.06)	14,240,870.29	13,367,631.80	(873,238.49)	13,367,631.80	8,862,773.86
65106FAG7	1,190,670.00	30,370.04	1,221,040.04	393,807.29	(827,232.75)	393,807.29	647,670.34
65535VEY0	1,058,364.05	4,609.67	1,062,973.72	1,022,015.53	(40,958.19)	1,022,015.53	656,871.50
65535VLQ9	-	43,484.42	43,484.42	15,910.41	(27,574.01)	15,910.41	75,971.03
65535VPK8	-	20,060.27	20,060.27	2,860.98	(17,199.29)	2,860.98	15,500.08
65535VRH3	6,266,429.36	1,539,821.26	7,806,250.62	6,086,108.40	(1,720,142.22)	6,086,108.40	5,584,866.16
65535VRK6	3,718,965.94	(45,152.89)	3,673,813.05	2,718,914.42	(954,898.63)	2,718,914.42	2,088,268.18
65535VSQ2	(82.52)	84,811.20	84,728.68	15,777.81	(68,950.87)	15,777.81	52,938.73
65535VUS5	3,895,364.92	(14,580.71)	3,880,784.21	2,989,246.58	(891,537.63)	2,989,246.58	2,305,182.59
65537BAG5	135,801.47	27,719.32	163,520.79	66,290.17	(97,230.62)	66,290.17	186,827.55
65538DAA3	5,312,827.99	(755,452.40)	4,557,375.59	3,758,835.27	(798,540.32)	3,758,835.27	2,743,517.21
66987WDE4	5,847,704.72	(1,907,696.14)	3,940,008.58	2,625,510.75	(1,314,497.83)	2,625,510.75	1,321,874.39
669884AF5	377,184.51	(320,129.01)	57,055.50	19,285.80	(37,769.70)	19,285.80	65,026.50
68383NCA9	29,122,184.77	(24,362.21)	29,097,822.56	28,077,470.17	(1,020,352.39)	28,077,470.17	19,464,924.60
68383NCD3	3,010,524.84	-	3,010,524.84	2,886,447.36	(124,077.48)	2,886,447.36	1,195,500.00
68383NCU5	11,502,942.75	-	11,502,942.75	11,278,190.80	(224,751.95)	11,278,190.80	6,778,459.97
68383NDT7	11,271,205.77	(896,796.33)	10,374,409.44	10,376,195.82	1,786.38	10,376,195.82	5,667,672.20
68383NDW0	3,597,142.89	1,966,825.58	5,563,968.47	5,563,968.48	0.01	5,563,968.48	1,438,805.68
68402CAC8	1,129,570.54	-	1,129,570.54	904,070.48	(225,500.06)	904,070.48	925,975.69
69121PDE0	465,476.34	(30,222.18)	435,254.16	371,270.34	(63,983.82)	371,270.34	362,639.76
69121PDX8	978,111.40	(12,463.44)	965,647.96	761,663.20	(203,984.76)	761,663.20	686,172.00
70069FHV2	1,768,763.27	2,237,789.96	4,006,553.23	4,006,553.22	(0.01)	4,006,553.22	791,420.34
74348UAL3	529,251.03	8,700,000.00	9,229,251.03	9,229,251.03	-	9,229,251.03	5,297,590.09
74919VAB2	10,652,302.68	(993,121.20)	9,659,181.48	9,313,276.32	(345,905.16)	9,313,276.32	7,593,689.89
74922MAB7	9,687,128.57	4,175,428.12	13,862,556.69	13,005,303.38	(857,253.31)	13,005,303.38	7,543,029.69
74922MAC5	2,092,990.54	(291,002.72)	1,801,987.82	1,711,344.62	(90,643.20)	1,711,344.62	1,034,273.47
74923PAJ2	1,571.45	2,853.35	4,424.80	1,660.00	(2,764.80)	1,660.00	1,630.90
74923PAK9	(391.02)	327.62	(63.40)	124.63	188.03	124.63	127.17
74923PAL7	1,971.91	-	1,971.91	-	(1,971.91)	-	-
74924UAB7	14,266,741.14	(505,253.85)	13,761,487.29	13,569,897.78	(191,589.51)	13,569,897.78	12,126,297.16
74924XAD7	1,426,249.05	659,240.86	2,085,489.91	376,108.88	(1,709,381.03)	376,108.88	615,410.40
74924YAH6	26,957.81	855.91	27,813.72	18,269.99	(9,543.73)	18,269.99	17,436.02
74927WAM6	228,730.11	71,175.90	299,906.01	299,674.84	(231.17)	299,674.84	374,845.91
74927XAM4	428,321.08	482,092.88	910,413.96	321,910.50	(588,503.46)	321,910.50	685,678.07
74951PBT4	3,922,041.69	2,299,991.33	6,222,033.02	6,219,225.65	(2,807.37)	6,219,225.65	2,601,017.16
74951PBV9	894,714.17	506,127.46	1,400,841.63	1,400,234.30	(607.33)	1,400,234.30	481,894.24
75114GAC3	27,542,226.82	(1,593,933.88)	25,948,292.94	25,436,827.09	(511,465.85)	25,436,827.09	13,131,451.01
75114HAD9	26,156,641.02	(2,290,774.73)	23,865,866.29	23,209,196.24	(656,670.05)	23,209,196.24	12,420,778.06
75114HAK3	4,345,090.29	1,332,818.60	5,677,908.89	5,187,537.40	(490,371.49)	5,187,537.40	1,375,305.50
75114NAA2	17,619,327.37	(271,141.83)	17,348,185.54	13,233,122.05	(4,115,063.49)	13,233,122.05	11,049,903.55
75114NAB0	4,294,512.68	1,986,378.35	6,280,891.03	4,812,858.48	(1,468,032.55)	4,812,858.48	2,639,323.22
75156XAC5	1,692,681.48	(66,097.69)	1,626,583.79	1,406,146.85	(220,436.94)	1,406,146.85	390,224.99
75405KAG3	72,207.00	(33,520.50)	38,686.50	16,425.07	(22,261.43)	16,425.07	82,599.00
75406AAB5	8,895,403.76	(112,039.39)	8,783,364.37	8,534,745.54	(248,618.83)	8,534,745.54	6,409,197.82
75970JAL0	53,512.83	58,314.15	111,826.98	61,163.35	(50,663.63)	61,163.35	92,482.25
75971EAK2	257,595.69	(43,454.93)	214,140.76	101,429.40	(112,711.36)	101,429.40	265,536.27
760985U33	395,180.18	227,220.37	622,400.55	622,400.56	0.01	622,400.56	207,422.66
76110GG62	6,213,713.75	(73,638.66)	6,140,075.09	6,140,075.09	-	6,140,075.09	4,833,180.01
76110GG70	2,369,630.97	(225,691.40)	2,143,939.57	2,144,577.08	637.51	2,144,577.08	1,868,499.55
76110GJ85	3,997,112.98	(76,580.43)	3,920,532.55	3,920,532.57	0.02	3,920,532.57	3,421,042.45
76110GTL5	1,562,861.26	(79,616.47)	1,483,244.79	1,483,244.80	0.01	1,483,244.80	1,574,472.15
76110GZQ7	8,594,656.44	(93,127.26)	8,501,529.18	8,501,529.19	0.01	8,501,529.19	7,490,061.37
76110GZR5	3,073,642.49	(28,507.28)	3,045,135.21	3,045,637.00	501.79	3,045,637.00	2,766,575.59
76110H4M8	395,265.68	(3,107.15)	392,158.53	334,099.27	(58,059.26)	334,099.27	213,990.49
76110H4Q9	563,487.10	(86,553.64)	476,933.46	476,939.06	5.60	476,939.06	548,700.17
76110H5C9	1,054,092.13	(435,732.14)	618,359.99	314,578.84	(303,781.15)	314,578.84	230,605.76
76110H5D7	30,845.67	-	30,845.67	7,611.74	(23,233.93)	7,611.74	22,307.81
76110HKX6	5,323,061.55	2,813,000.16	8,136,061.71	8,135,654.13	(407.58)	8,135,654.13	5,455,081.97
76110HKY4	703,854.76	625,157.79	1,329,012.55	1,328,923.64	(88.91)	1,328,923.64	636,456.27
76110W4J2	24,575.12	1,138.47	25,713.59	9,281.19	(16,432.40)	9,281.19	11,360.80
76110W6M3	2,284,782.03	774,236.30	3,059,018.33	3,059,018.34	0.01	3,059,018.34	918,960.00
761118FM5	13,209,885.72	-	13,209,885.72	12,296,474.43	(913,411.29)	12,296,474.43	8,438,914.81
761118FQ6	58,397.92	(29,610.73)	28,787.19	6,871.76	(21,915.43)	6,871.76	36,361.08
761118KU1	9,725,160.09	-	9,725,160.09	8,846,793.13	(878,366.96)	8,846,793.13	5,189,883.97
761118LA4	53,796.11	36,697.64	90,493.75	90,493.51	(0.24)	90,493.51	56,162.22
761118NN4	13,169,053.72	(694,418.44)	12,474,635.28	12,175,403.88	(299,231.40)	12,175,403.88	7,067,863.87
761118RJ9	707,298.45	(65,944.35)	641,354.10	621,028.28	(20,325.82)	621,028.28	309,807.20

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
761118RM2	\$ 28,918,638.87	\$ (2,753,099.13)	\$ 26,165,539.74	\$ 25,698,060.79	\$ (467,478.95)	\$ 25,698,060.79	\$ 13,624,706.80
761118WE4	204.00	-	204.00	-	(204.00)	-	-
761118WP9	18,769,710.39	(1,200,907.10)	17,568,803.29	15,649,047.44	(1,919,755.85)	15,649,047.44	10,974,279.58
761118WS3	3,842.84	4,366.40	8,209.24	1,319.66	(6,889.58)	1,319.66	2,850.76
76112B4M9	2,906,247.24	(166,746.10)	2,739,501.14	2,639,861.63	(99,639.51)	2,639,861.63	1,706,190.19
76112BE48	1,553,562.99	327,594.16	1,881,157.15	1,878,001.27	(3,155.88)	1,878,001.27	1,468,690.76
76112BK66	29,668.14	1,031.12	30,699.26	11,985.79	(18,713.47)	11,985.79	14,717.40
76112BLZ1	648,509.15	2,256,347.73	2,904,856.88	2,904,856.89	0.01	2,904,856.89	1,032,365.44
76112BN55	62,581.52	(11,597.30)	50,984.22	24,080.01	(26,904.21)	24,080.01	19,886.20
76113ABJ9	1,991,058.20	(276,091.76)	1,714,966.44	1,388,640.81	(326,325.63)	1,388,640.81	603,031.78
76114GAL1	93,832.60	(7,899.88)	85,932.72	721.66	(85,211.06)	721.66	4,979.56
783422BF4	174,947.30	1,825,052.70	2,000,000.00	2,000,000.00	-	2,000,000.00	999,258.10
78402TAD8	658,267.91	531,732.09	1,190,000.00	1,190,000.00	-	1,190,000.00	464,357.04
79549AFV6	2,580,012.65	-	2,580,012.65	2,284,534.58	(295,478.07)	2,284,534.58	2,427,035.27
79549ASN0	290,908.06	115,910.09	406,818.15	405,371.50	(1,446.65)	405,371.50	262,566.48
79549AYA1	824,602.79	1,044,459.34	1,869,062.13	1,868,017.15	(1,044.98)	1,868,017.15	792,099.16
79549AYB9	28,499.74	215,284.78	243,784.52	244,317.00	532.48	244,317.00	98,140.79
805564RM5	2,956,499.58	738,544.07	3,695,043.65	3,695,043.66	0.01	3,695,043.66	2,089,243.83
80557BAC8	10,329,035.81	(158,347.64)	10,170,688.17	6,848,378.81	(3,322,309.36)	6,848,378.81	3,576,155.00
81377EAA2	355,927.50	-	355,927.50	259,115.01	(96,812.49)	259,115.01	197,339.38
81378EAA1	5,847,745.73	(48,743.39)	5,799,002.34	5,274,918.91	(524,083.43)	5,274,918.91	3,857,117.38
81379EAA0	738,805.66	(9,289.36)	729,516.30	689,403.90	(40,112.40)	689,403.90	535,867.62
81744DAD4	531,092.00	(372,715.11)	158,376.89	42,137.90	(116,238.99)	42,137.90	486,634.11
81744FJH1	373,163.99	(24,840.39)	348,323.60	348,585.43	261.83	348,585.43	193,051.98
81879MAX7	92,102.98	15,742.14	107,845.12	52,295.44	(55,549.68)	52,295.44	51,926.45
83612LAK5	3,923.58	-	3,923.58	-	(3,923.58)	-	-
84751PAA7	26,471.20	8,451.75	34,922.95	34,922.95	-	34,922.95	19,221.73
84752CAE7	2,585,715.86	(340,501.89)	2,245,213.97	1,739,762.41	(505,451.56)	1,739,762.41	744,068.89
8635722A0	304,298.96	-	304,298.96	258,947.73	(45,351.23)	258,947.73	215,387.01
863579DV7	1,592,934.73	(60,524.79)	1,532,409.94	1,094,361.06	(438,048.88)	1,094,361.06	177,264.90
863579DX3	166,572.65	34,636.60	201,209.25	148,056.44	(53,152.81)	148,056.44	94,283.24
863579GG7	165,415.67	661.88	166,077.55	166,077.40	(0.15)	166,077.40	141,003.15
863579GJ1	43,155.23	(22,724.27)	20,430.96	20,427.02	(3.94)	20,427.02	13,129.20
863579HM3	461,311.52	(367,802.35)	93,509.17	43,126.70	(50,382.47)	43,126.70	64,979.90
863579RE0	131,829.76	(115,383.13)	16,446.63	16,451.61	4.98	16,451.61	134,865.14
863579TU2	635,560.85	(532,661.09)	102,899.76	102,915.02	15.26	102,915.02	382,873.84
863579YR3	10,523,482.58	(90,438.93)	10,433,043.65	10,190,246.57	(242,797.08)	10,190,246.57	6,603,915.23
863579Z43	16,445.38	103,950.79	120,396.17	52,730.84	(67,665.33)	52,730.84	91,301.91
86358BAH5	32,690.46	(255.56)	32,434.90	11,444.36	(20,990.54)	11,444.36	14,153.86
86358EQJ8	4,145,569.20	(574,825.80)	3,570,743.40	3,206,369.81	(364,373.59)	3,206,369.81	806,857.32
86358HQW2	325,850.39	(266,556.53)	59,293.86	59,293.86	-	59,293.86	329,714.28
86358R3Q8	1,082,031.97	424,084.89	1,506,116.86	1,506,092.48	(24.38)	1,506,092.48	930,488.90
86358RE86	13,459.26	3,776.02	17,235.28	17,216.29	(18.99)	17,216.29	2,836.68
86358RL88	264,667.76	(34,909.91)	229,757.85	229,757.85	-	229,757.85	150,003.40
86358RLG0	385,111.34	49,705.21	434,816.55	434,784.64	(31.91)	434,784.64	271,022.08
86358RUL9	84,181.97	(56,749.75)	27,432.22	27,434.38	2.16	27,434.38	56,179.85
86358RUR6	101,135.94	206,388.52	307,524.46	307,529.13	4.67	307,529.13	56,947.29
86359ACC5	1,007,756.60	(196,483.91)	811,272.69	811,272.69	-	811,272.69	506,809.18
86359ACD3	843,958.00	(97,849.94)	746,108.06	745,811.91	(296.15)	745,811.91	612,335.68
86359ACE1	345,722.05	(27,506.90)	318,215.15	207,040.75	(111,174.40)	207,040.75	153,830.09
86359ACG6	76,697.26	(48,332.07)	28,365.19	28,188.04	(177.15)	28,188.04	67,311.50
86359AEH2	158,362.19	73,106.77	231,468.96	231,161.45	(307.51)	231,161.45	30,581.08
86359AHD8	420,482.44	108,278.11	528,760.55	528,489.82	(270.73)	528,489.82	364,521.10
86359AVY6	723,277.78	(3,382.42)	719,895.36	719,895.36	-	719,895.36	342,404.38
86359B7K1	213,076.55	(21,837.31)	191,239.24	187,908.19	(3,331.05)	187,908.19	154,961.35
86359BCV1	1,070,239.86	(127,934.45)	942,305.41	943,268.90	963.49	943,268.90	613,162.68
86359BKF7	1,227,093.53	428,166.70	1,655,260.23	1,658,397.70	3,137.47	1,658,397.70	2,231,220.18
86359BLB5	1,732,358.74	(30,744.46)	1,701,614.28	1,702,757.96	1,143.68	1,702,757.96	1,458,676.48
86359BLQ2	2,648,861.80	990,587.67	3,639,449.47	3,643,248.65	3,799.18	3,643,248.65	5,778,105.17
86359BLS8	116,441.18	62,462.37	178,903.55	110,076.13	(68,827.42)	110,076.13	96,817.83
86359BU82	290,663.85	(87,421.09)	203,242.76	80,989.75	(122,253.01)	80,989.75	151,103.21
86359DUV7	179,245.29	(49,349.89)	129,895.40	100,228.40	(29,667.00)	100,228.40	135,607.50
86359DXD4	294,266.16	(226,143.96)	68,122.20	68,122.20	-	68,122.20	63,993.01
86359LRC5	384,170.49	(257,490.29)	126,680.20	126,661.96	(18.24)	126,661.96	346,786.86
86359LRW1	28,679,892.40	(1,510,541.26)	27,169,351.14	26,475,123.11	(694,228.03)	26,475,123.11	15,136,386.82
86359LSM2	2,030,257.81	(81,453.31)	1,948,804.50	1,816,551.68	(132,252.82)	1,816,551.68	1,064,313.36
86360JAA9	14,543,741.26	(532,562.71)	14,011,178.55	13,930,147.54	(81,031.01)	13,930,147.54	8,109,614.85
86360JAE1	12,649,846.35	(761,646.33)	11,888,200.02	11,813,112.90	(75,087.12)	11,813,112.90	6,503,599.28
86360JAN1	5,595,458.98	(379,004.23)	5,216,454.75	5,147,847.78	(68,606.97)	5,147,847.78	2,625,609.16
86360KAF5	46,798,820.18	(2,955,673.08)	43,843,147.10	41,980,382.44	(1,862,764.66)	41,980,382.44	24,515,561.95
86360NAS1	1,233,351.06	810,834.20	2,044,185.26	318.15	(2,043,867.11)	318.15	1,666,540.94

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
86360PAD9	\$ 83,766.14	\$ (4,763.24)	\$ 79,002.90	\$ 67,324.16	\$ (11,678.74)	\$ 67,324.16	\$ 33,421.56
86360UAF3	5,521,288.04	(305,067.73)	5,216,220.31	5,102,465.72	(113,754.59)	5,102,465.72	2,864,885.94
86361EAM3	17,440.33	-	17,440.33	5,713.02	(11,727.31)	5,713.02	10,628.07
86361EAP6	9,042.00	-	9,042.00	3,046.79	(5,995.21)	3,046.79	8,085.00
86361EAQ4	-	2,346.27	2,346.27	655.03	(1,691.24)	655.03	2,523.50
86361HAA2	17,428,577.52	(684,001.96)	16,744,575.56	16,272,295.53	(472,280.03)	16,272,295.53	11,183,221.05
86361HAB0	11,651,742.66	(711,528.52)	10,940,214.14	10,943,104.96	2,890.82	10,943,104.96	7,842,308.99
86361HAZ7	-	9,594.00	9,594.00	3,464.37	(6,129.63)	3,464.37	39,630.00
86361HBA1	6,110.00	(3,826.40)	2,283.60	1,615.57	(668.03)	1,615.57	15,080.00
86362HAA1	14,588,619.53	(1,066,556.23)	13,522,063.30	12,561,288.69	(960,774.61)	12,561,288.69	7,147,203.91
86362HAH6	5,829.67	(3,177.69)	2,651.98	296.68	(2,355.30)	296.68	5,229.45
86362PAD7	253,545.94	(27,191.50)	226,354.44	122,110.19	(104,244.25)	122,110.19	71,430.42
86362XAV0	1,451.32	(1,120.95)	330.37	157.21	(173.16)	157.21	1,408.40
86363DAA9	13,760,475.45	(607,499.93)	13,152,975.52	12,694,054.56	(458,920.96)	12,694,054.56	7,142,217.23
86363HAB8	6,376,543.00	(237,447.51)	6,139,095.49	5,565,177.12	(573,918.37)	5,565,177.12	4,530,229.01
86363MAB7	5,202,696.47	(778,973.65)	4,423,722.82	3,978,852.21	(444,870.61)	3,978,852.21	2,186,856.00
86789MAP2	847,733.08	(457,943.46)	389,789.62	242,367.80	(147,421.82)	242,367.80	358,044.59
86800RAL5	1,972.56	-	1,972.56	-	(1,972.56)	-	-
872224AD2	20,349,000.00	-	20,349,000.00	19,360,265.50	(988,734.50)	19,360,265.50	9,799,142.34
872224AK6	119,332.16	(36,863.87)	82,468.29	28,832.86	(53,635.43)	28,832.86	124,089.68
872224AL4	40,816.07	(15,155.23)	25,660.84	25,660.84	-	25,660.84	43,894.13
872225AL1	93,706.50	(20,398.07)	73,308.43	73,308.44	0.01	73,308.44	230,995.55
872225AN7	30,641.99	(5,311.42)	25,330.57	25,330.58	0.01	25,330.58	98,001.41
872225AP2	22,599.87	219.29	22,819.16	22,819.15	(0.01)	22,819.15	92,891.37
872227AE3	8,031,420.99	(2,572,709.22)	5,458,711.77	5,313,561.29	(145,150.48)	5,313,561.29	3,957,824.24
872227AM5	181,133.95	(72,466.01)	108,667.94	36,583.13	(72,084.81)	36,583.13	177,935.23
87222EAJ7	31,009.62	24,043.08	55,052.70	13,908.37	(41,144.33)	13,908.37	73,001.72
87222PAN3	38,080.84	(17,273.04)	20,807.80	200.00	(20,607.80)	200.00	143,389.20
88156UAW0	-	45,750.00	45,750.00	45,750.00	-	45,750.00	30,500.00
88157QAL2	1,421,102.70	(457,898.05)	963,204.65	963,204.69	0.04	963,204.69	1,138,231.57
885220FS7	9,844,604.42	-	9,844,604.42	9,832,724.56	(11,879.86)	9,832,724.56	7,823,585.17
89789KAC9	30,127.35	(764.85)	29,362.50	11,270.83	(18,091.67)	11,270.83	27,000.00
92719UAM4	236,222.89	-	236,222.89	25,074.93	(211,147.96)	25,074.93	70,654.57
929227ZF6	52,265.55	(3,165.49)	49,100.06	49,100.06	-	49,100.06	124,067.66
92922F4M7	5,344,586.68	(19,929.97)	5,324,656.71	5,324,656.71	-	5,324,656.71	2,886,624.09
92922F5T1	9,171,169.14	(78,835.36)	9,092,333.78	9,092,333.78	-	9,092,333.78	5,914,578.69
92922F6E3	385,454.75	(77,583.33)	307,871.42	307,871.43	0.01	307,871.43	325,577.47
92922F7A0	2,238,246.59	-	2,238,246.59	1,699,451.30	(538,795.29)	1,699,451.30	1,020,525.22
92922F7Q5	12,554,648.32	(253,583.51)	12,301,064.81	12,300,269.04	(795.77)	12,300,269.04	6,680,797.65
92922FB72	1,559,125.74	-	1,559,125.74	1,554,057.51	(5,068.23)	1,554,057.51	937,789.79
92922FNW4	1,660,454.29	(123,016.17)	1,537,438.12	1,537,438.12	-	1,537,438.12	1,051,794.32
92922FQ76	789,417.30	(75,348.83)	714,068.47	494,472.77	(219,595.70)	494,472.77	288,547.16
92922FTJ7	1,833,244.40	(49,499.34)	1,783,745.06	1,756,138.52	(27,606.54)	1,756,138.52	1,176,690.61
92922FW61	2,327,563.81	(346,606.29)	1,980,957.52	1,873,062.99	(107,894.53)	1,873,062.99	1,192,605.33
92922FWU8	5,183,643.59	-	5,183,643.59	5,101,570.58	(82,073.01)	5,101,570.58	2,713,875.21
92922FZF8	11,146,213.55	(41,378.71)	11,104,834.84	11,104,834.84	-	11,104,834.84	7,900,401.88
92925CBB7	5,531,172.53	(24,538.49)	5,506,634.04	5,505,277.92	(1,356.12)	5,505,277.92	3,213,112.92
92926SAB2	58,318.93	(922.61)	57,396.32	50,378.73	(7,017.59)	50,378.73	38,707.45
92926SAE6	3,786,053.39	144,000.25	3,930,053.64	3,107,030.73	(823,022.91)	3,107,030.73	2,680,808.31
92977YAY7	2,719,007.55	414,130.93	3,133,138.48	2,868,059.48	(265,079.00)	2,868,059.48	94,172.41
92978EAA2	1,890,306.44	-	1,890,306.44	1,656,110.40	(234,196.04)	1,656,110.40	1,482,263.15
93363CAF6	715,176.15	-	715,176.15	676,140.30	(39,035.85)	676,140.30	683,550.19
9393363A9	627,474.62	-	627,474.62	529,631.30	(97,843.32)	529,631.30	489,247.67
9393365V1	2,586,237.08	(269,112.39)	2,317,124.69	2,293,666.96	(23,457.73)	2,293,666.96	1,822,659.77
939336PT4	391,940.06	(122,328.61)	269,611.45	269,620.10	8.65	269,620.10	210,258.96
939336U35	1,970,462.37	(76,525.93)	1,893,936.44	1,893,979.36	42.92	1,893,979.36	1,738,382.89
93934FHC9	12,194,405.07	(1,040,681.96)	11,153,723.11	11,079,857.85	(73,865.26)	11,079,857.85	6,594,274.54
93934FHK1	125,978.62	(89,806.95)	36,171.67	36,171.66	(0.01)	36,171.66	150,363.33
93934FHL9	113.36	(761.93)	(648.57)	379.14	1,027.71	379.14	1,287.75
93934FJQ6	23,928,084.11	(2,524,843.98)	21,403,240.13	21,112,966.43	(290,273.70)	21,112,966.43	11,840,531.31
93934FMJ8	320,639.91	384,301.34	704,941.25	309,537.78	(395,403.47)	309,537.78	619,871.43
93934XAB9	2,779,422.93	(37,957.41)	2,741,465.52	2,365,617.00	(375,848.52)	2,365,617.00	2,147,559.47
93935AAE2	538,344.76	322,155.31	860,500.07	778,895.46	(81,604.61)	778,895.46	722,756.73
93935GAJ8	204,824.70	(20,348.81)	184,475.89	184,475.85	(0.04)	184,475.85	400,667.47
93935LAG3	352,542.75	195,529.97	548,072.72	380,550.36	(167,522.36)	380,550.36	256,255.23
93935WAP9	3,734.16	(1,009.22)	2,724.94	558.78	(2,166.16)	558.78	749.62
93935WAQ7	213.83	-	213.83	-	(213.83)	-	-
93936JAM4	344,464.75	76,650.92	421,115.67	15,796.16	(405,319.51)	15,796.16	158,641.85
941034AD2	257,293.51	(84,240.51)	173,053.00	173,053.00	-	173,053.00	225,090.30
941574AG0	7,340,873.94	(1,616,039.00)	5,724,834.94	5,222,700.00	(502,134.94)	5,222,700.00	450,000.00
9497EVAF2	18,903.75	12,699.04	31,602.79	18,528.82	(13,073.97)	18,528.82	24,886.44
94980MAB4	51,701.22	-	51,701.22	-	(51,701.22)	-	-

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost before Cumulative Adjustment	Cumulative Adjustment	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value
94981PAG5	\$ 802,955.86	\$ 1,280,654.46	\$ 2,083,610.32	\$ 1,993,300.87	\$ (90,309.45)	\$ 1,993,300.87	\$ 368,612.09
94981VAX5	1,188,385.23	(3,379.86)	1,185,005.37	1,185,005.37	-	1,185,005.37	1,167,253.01
94983CAJ6	22,596,075.06	(3,685.55)	22,592,389.51	22,592,389.52	0.01	22,592,389.52	19,042,096.00
94983TAE0	13,778,384.20	(9,809.29)	13,768,574.91	13,768,647.54	72.63	13,768,647.54	11,891,147.08
94983VAC9	10,613,691.73	(1,094,464.14)	9,519,227.59	9,528,559.05	9,331.46	9,528,559.05	7,833,355.09
94985JAG5	19,506,806.93	(924,368.23)	18,582,438.70	18,456,891.56	(125,547.14)	18,456,891.56	12,376,584.08
984582AA4	6,248,076.68	(378,282.85)	5,869,793.83	4,767,458.80	(1,102,335.03)	4,767,458.80	4,272,181.96
984582AB2	102,579.32	(33,344.79)	69,234.53	16,425.16	(52,809.37)	16,425.16	100,679.29
L26479NN8	2,022,238.45	(518,182.51)	1,504,055.94	1,237,993.81	(266,062.13)	1,237,993.81	1,441,266.57
L26480MN7	1,956,398.74	(1,294,652.03)	661,746.71	887,037.64	225,290.93	887,037.64	348,503.40
N2874AAB7	7,848,850.24	(3,145,633.23)	4,703,217.01	5,052,572.40	349,355.39	5,052,572.40	1,053,648.00
Totals	\$ 2,953,442,689.02	\$ (106,853,708.32)	\$ 2,846,588,980.70	\$ 2,700,948,264.43	\$ (145,640,716.27)	\$ 2,700,948,264.43	\$ 1,692,409,639.54

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES

GENERAL

- 1.1

Did the reporting entity experience any material transactions requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act?

Yes [] No [X]
- 1.2

If yes, has the report been filed with the domiciliary state?

Yes [] No []
- 2.1

Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity?

Yes [] No [X]
- 2.2

If yes, date of change:
- 3.1

Have there been any substantial changes in the organizational chart since the prior quarter end?

Yes [] No [X]
- 3.2

If the response to 3.1 is yes, provide a brief description of those changes.
- 4.1

Has the reporting entity been a party to a merger or consolidation during the period covered by this statement?

Yes [] No [X]
- 4.2

If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation.

1 Name of Entity	2 NAIC Company Code	3 State of Domicile
5.

If the reporting entity is subject to a management agreement, including third-party administrator(s), managing general agent(s), attorney-in-fact, or similar agreement, have there been any significant changes regarding the terms of the agreement or principals involved? If yes, attach an explanation.

Yes [] No [X] N/A []
- 6.1

State as of what date the latest financial examination of the reporting entity was made or is being made.

12/31/2009
- 6.2

State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released.

12/31/2009
- 6.3

State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date).

04/01/2011
- 6.4

By what department or departments?
Commonwealth of Massachusetts Division of Insurance
- 6.5

Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments?

Yes [] No [] N/A [X]
- 6.6

Have all of the recommendations within the latest financial examination report been complied with?

Yes [X] No [] N/A []
- 7.1

Has this reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period?

Yes [] No [X]
- 7.2

If yes, give full information:
- 8.1

Is the company a subsidiary of a bank holding company regulated by the Federal Reserve Board?

Yes [] No [X]
- 8.2

If response to 8.1 is yes, please identify the name of the bank holding company.
- 8.3

Is the company affiliated with one or more banks, thrifts or securities firms?

Yes [X] No []
- 8.4

If response to 8.3 is yes, please provide below the names and location (city and state of the main office) of any affiliates regulated by a federal regulatory services agency [i.e. the Federal Reserve Board (FRB), the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Securities Exchange Commission (SEC)] and identify the affiliate's primary federal regulator.

1 Affiliate Name	2 Location (City, State)	3 FRB	4 OCC	5 FDIC	6 SEC
The MassMutual Trust Company, FSB	Enfield, CT		YES		
MML Distributors, LLC	Springfield, MA				YES
MML Investors Services, LLC	Springfield, MA				YES
OppenheimerFunds Distributor, Inc.	New York, NY				YES
Babson Capital Securities, LLC	Boston, MA				YES
MMLISI Financial Alliances, LLC	Springfield, MA				YES
Baring Asset Management (Asia) Limited	Hong Kong				YES
Baring International Investment Limited	London, UK				YES

GENERAL INTERROGATORIES

- 9.1

Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions) of the reporting entity subject to a code of ethics, which includes the following standards? (a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships; (b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting entity; (c) Compliance with applicable governmental laws, rules and regulations; (d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and (e) Accountability for adherence to the code.

Yes [X] No []
- 9.11

If the response to 9.1 is No, please explain:
- 9.2

Has the code of ethics for senior managers been amended?

Yes [X] No []
- 9.21

If the response to 9.2 is Yes, provide information related to amendment(s). The Code of Conduct was revised in January 2013. The revisions to the Code of Conduct are not material in nature. The revisions clarify or heighten awareness of certain information already incorporated in the Code of Conduct.
- 9.3

Have any provisions of the code of ethics been waived for any of the specified officers?

Yes [] No [X]
- 9.31

If the response to 9.3 is Yes, provide the nature of any waiver(s).

FINANCIAL

- 10.1

Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement?

Yes [X] No []
- 10.2

If yes, indicate any amounts receivable from parent included in the Page 2 amount:

\$0

INVESTMENT

- 11.1

Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or otherwise made available for use by another person? (Exclude securities under securities lending agreements.)

Yes [X] No []
- 11.2

If yes, give full and complete information relating thereto: Reverse Repurchase Agreements
12.

Amount of real estate and mortgages held in other invested assets in Schedule BA:

\$1,888,117,467
13.

Amount of real estate and mortgages held in short-term investments:

\$
- 14.1

Does the reporting entity have any investments in parent, subsidiaries and affiliates?

Yes [X] No []
- 14.2

If yes, please complete the following:
- | | 1 | 2 |
|---|---|--|
| | Prior Year-End Book/Adjusted Carrying Value | Current Quarter Book/Adjusted Carrying Value |
| 14.21 Bonds | \$5,260,115,376 | \$4,979,957,380 |
| 14.22 Preferred Stock | \$ | \$ |
| 14.23 Common Stock | \$5,476,632,773 | \$5,931,153,958 |
| 14.24 Short-Term Investments | \$ | \$ |
| 14.25 Mortgage Loans on Real Estate | \$ | \$ |
| 14.26 All Other | \$4,288,037,148 | \$4,457,939,135 |
| 14.27 Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26) | \$15,024,785,297 | \$15,369,050,473 |
| 14.28 Total Investment in Parent included in Lines 14.21 to 14.26 above | \$ | \$ |
- 15.1

Has the reporting entity entered into any hedging transactions reported on Schedule DB?

Yes [X] No []
- 15.2

If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? If no, attach a description with this statement.

Yes [X] No []

GENERAL INTERROGATORIES

16. For the reporting entity's security lending program, state the amount of the following as of the current statement date:
- 16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2.

16.2 Total book adjusted/carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2.

16.3 Total payable for securities lending reported on the liability page.
- \$

\$

\$

17. Excluding items in Schedule E - Part 3 - Special Deposits, real estate, mortgage loans and investments held physically in the reporting entity's offices, vaults or safety deposit boxes, were all stocks, bonds and other securities, owned throughout the current year held pursuant to a custodial agreement with a qualified bank or trust company in accordance with Section 1, III - General Examination Considerations, F. Outsourcing of Critical Functions, Custodial or Safekeeping Agreements of the NAIC Financial Condition Examiners Handbook?
- Yes [X] No []

- 17.1 For all agreements that comply with the requirements of the NAIC Financial Condition Examiners Handbook, complete the following:

1 Name of Custodian(s)	2 Custodian Address
JP Chase Manhattan Bank	1 Chase Manhattan Plaza, 19th Floor, New York, NY 10005
State Street Global Services	801 Pennsylvania, Kansas City, MO 64105
Citibank, N.A.	333 West 34th Street, New York, NY 10001
Northern Trust	50 South LaSalle Street, Chicago, IL 60603

- 17.2 For all agreements that do not comply with the requirements of the NAIC Financial Condition Examiners Handbook, provide the name, location and a complete explanation:

1 Name(s)	2 Location(s)	3 Complete Explanation(s)

- 17.3 Have there been any changes, including name changes, in the custodian(s) identified in 17.1 during the current quarter?
- Yes [] No [X]

- 17.4 If yes, give full information relating thereto:

1 Old Custodian	2 New Custodian	3 Date of Change	4 Reason

- 17.5 Identify all investment advisors, brokers/dealers or individuals acting on behalf of broker/dealers that have access to the investment accounts, handle securities and have authority to make investments on behalf of the reporting entity:

1 Central Registration Depository	2 Name(s)	3 Address
# 106006	Babson Capital Management, LLC	1500 Main Street, Springfield, MA 01115 Two World Financial Center, 225 Liberty Street, New York, NY 10281-1008
# 110363	OFI Institutional Asset Management, Inc.	One Franklin Parkway, San Mateo, CA 94403-1906
# 104517	Franklin Advisors, Inc.	500 Griswold Street Suite 2800,Detroit MI 48226
# 110999	Ambassador Capital Management	11550 Ash Street, Suite 300,Leawood, KS 66211
# 123711	Tortoise Capital Advisors, L.L.C.	61 Aldwych, London WC2B 4AE
# 185402	Ashmore Investment Management Limited	

- 18.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Securities Valuation Office been followed?
- Yes [] No [X]

- 18.2 If no, list exceptions:
- At 09/30/2013, 161 issues for 82 issuers did not meet the filing requirements of the Purposes and Procedures Manual. The majority of these issues currently lack one or more of the following: Valid cusip/PPN, audited financials and/or executed legal documentation. Exceptions totaled \$367,013,046 or 0.50% of all assets.

GENERAL INTERROGATORIES

PART 2 - LIFE & HEALTH

1.

Report the statement value of mortgage loans at the end of this reporting period for the following categories:

1

Amount

1.1

Long-Term Mortgages In Good Standing

1.11

Farm Mortgages

\$

10,829,881

1.12

Residential Mortgages

\$

1,794,701,654

1.13

Commercial Mortgages

\$

14,314,466,728

1.14

Total Mortgages in Good Standing

\$

16,119,998,263

1.2

Long-Term Mortgages In Good Standing with Restructured Terms

1.21

Total Mortgages in Good Standing with Restructured Terms

\$

1.3

Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months

1.31

Farm Mortgages

\$

1.32

Residential Mortgages

\$

1.33

Commercial Mortgages

\$

1.34

Total Mortgages with Interest Overdue more than Three Months

\$

1.4

Long-Term Mortgage Loans in Process of Foreclosure

1.41

Farm Mortgages

\$

1.42

Residential Mortgages

\$

1.43

Commercial Mortgages

\$

1.44

Total Mortgages in Process of Foreclosure

\$

1.5

Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)

\$

16,119,998,263

1.6

Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter

1.61

Farm Mortgages

\$

1.62

Residential Mortgages

\$

1.63

Commercial Mortgages

\$

1.64

Total Mortgages Foreclosed and Transferred to Real Estate

\$

2.

Operating Percentages:

2.1

A&H loss percent

73.750 %

2.2

A&H cost containment percent

1.800 %

2.3

A&H expense percent excluding cost containment expenses

71.950 %

3.1

Do you act as a custodian for health savings accounts?

Yes [] No [X]

3.2

If yes, please provide the amount of custodial funds held as of the reporting date

\$

3.3

Do you act as an administrator for health savings accounts?

Yes [] No [X]

3.4

If yes, please provide the balance of the funds administered as of the reporting date

\$

SCHEDULE S - CEDED REINSURANCE

Showing All New Reinsurance Treaties - Current Year to Date

1 NAIC Company Code	2 Federal ID Number	3 Effective Date	4 Name of Reinsurer	5 Domiciliary Jurisdiction	6 Type of Reinsurance Ceded	7 Is Insurer Authorized? (Yes or No)
93572	43-1235868	06/01/2012	RGA Reinsurance Co. (GAN7)	MO.	YRT/I	YES
88099	75-1608507	05/01/2013	Optimum Re Insurance Company (OPN6)	TX.	YRT/I	YES
82627	06-0839705	05/01/2013	Swiss Re Life & Health America (SRN6)	CT.	YRT/I	YES

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS

Current Year To Date - Allocated by States and Territories

States, Etc.			1	Life Contracts		Direct Business Only			
				2	3	4 Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	5 Other Considerations	6 Total Columns 2 Through 5	7 Deposit-Type Contracts
1.	Alabama	AL	L	26,472,166	13,965,321	4,066,684	11,708,947	56,213,118	
2.	Alaska	AK	L	9,000,285	2,541,941	214,871	709,999	12,467,096	
3.	Arizona	AZ	L	29,458,674	38,151,865	6,394,494	5,631,210	79,636,243	
4.	Arkansas	AR	L	16,576,585	4,748,309	1,175,030	481,935	22,981,859	9
5.	California	CA	L	280,301,069	255,707,399	41,370,521	241,079,871	818,458,860	88
6.	Colorado	CO	L	47,091,137	40,521,645	6,480,585	55,684,570	149,777,937	95
7.	Connecticut	CT	L	92,089,511	54,746,857	14,829,557	74,775,493	236,441,418	2,408
8.	Delaware	DE	L	92,620,136	8,385,764	1,143,813	1,061,617,093	1,163,766,806	598,896,000
9.	District of Columbia	DC	L	12,700,495	3,039,405	3,229,687	20,736,261	39,705,848	
10.	Florida	FL	L	185,586,028	127,784,655	19,290,938	423,995,309	756,656,930	120
11.	Georgia	GA	L	125,307,084	77,205,273	15,439,886	796,378,942	1,014,331,185	
12.	Hawaii	HI	L	46,849,705	13,692,099	2,109,234	20,660,054	83,311,092	
13.	Idaho	ID	L	10,421,609	11,528,068	827,089	6,827,569	29,604,335	
14.	Illinois	IL	L	151,673,215	107,527,101	17,699,121	325,770,715	602,670,152	4,819
15.	Indiana	IN	L	50,328,704	51,540,579	5,824,862	54,222,930	161,917,075	276,579
16.	Iowa	IA	L	38,300,448	15,093,669	2,873,110	163,305,521	219,572,748	
17.	Kansas	KS	L	23,953,747	9,241,486	4,226,532	24,788,000	62,209,765	
18.	Kentucky	KY	L	25,426,090	22,507,150	3,596,927	95,889,240	147,419,407	
19.	Louisiana	LA	L	18,522,886	13,674,102	3,720,637	97,270,960	133,188,585	362
20.	Maine	ME	L	11,377,104	12,767,955	1,468,025	20,976,253	46,589,337	
21.	Maryland	MD	L	81,680,626	26,981,446	21,436,193	64,196,679	194,294,944	1,199
22.	Massachusetts	MA	L	105,354,167	221,105,979	20,043,111	565,054,416	911,557,673	188,000
23.	Michigan	MI	L	62,451,355	123,436,534	9,633,997	64,544,103	260,065,989	
24.	Minnesota	MN	L	40,669,022	50,524,032	6,009,848	185,108,823	282,311,725	
25.	Mississippi	MS	L	18,493,672	16,781,255	7,525,957	6,358,730	49,159,614	
26.	Missouri	MO	L	58,769,244	36,619,899	7,529,234	178,069,659	280,988,036	9
27.	Montana	MT	L	13,904,191	3,515,375	829,420	24,880,301	43,129,287	
28.	Nebraska	NE	L	22,014,337	17,178,095	4,432,081	58,888,343	102,512,856	
29.	Nevada	NV	L	13,805,895	8,373,022	2,353,901	2,120,363	26,653,181	
30.	New Hampshire	NH	L	24,836,898	25,326,240	2,834,918	21,062,479	74,060,535	
31.	New Jersey	NJ	L	155,656,606	120,373,910	25,755,720	205,945,102	507,731,338	519
32.	New Mexico	NM	L	27,970,797	8,736,314	1,326,216	45,704	38,079,031	
33.	New York	NY	L	468,014,048	278,917,146	57,575,808	385,916,653	1,190,423,655	5,665
34.	North Carolina	NC	L	78,646,780	76,421,235	18,774,516	47,711,344	221,553,875	
35.	North Dakota	ND	L	3,049,282	6,469,018	199,301	21,096	9,738,697	
36.	Ohio	OH	L	84,071,295	120,393,486	10,721,959	146,168,501	361,355,241	431,850
37.	Oklahoma	OK	L	56,273,035	18,032,456	5,531,610	36,205,978	116,043,079	
38.	Oregon	OR	L	14,710,962	16,481,063	3,332,994	20,866,582	55,391,601	
39.	Pennsylvania	PA	L	156,507,194	151,792,465	27,458,829	122,305,550	458,064,038	4,231
40.	Rhode Island	RI	L	12,111,581	18,843,458	2,031,812	36,935,167	69,922,018	
41.	South Carolina	SC	L	52,717,502	23,619,262	10,960,116	7,508,796	94,805,676	
42.	South Dakota	SD	L	7,133,338	2,295,822	484,658	939,565	10,853,383	
43.	Tennessee	TN	L	61,177,782	43,709,178	11,100,550	77,755,340	193,742,850	28
44.	Texas	TX	L	229,440,140	173,799,542	32,767,401	193,263,123	629,270,206	1,086
45.	Utah	UT	L	23,211,407	22,110,849	2,633,926	8,976,129	56,932,311	
46.	Vermont	VT	L	17,751,812	6,049,123	851,665	3,115,805	27,768,405	
47.	Virginia	VA	L	121,400,367	123,606,539	23,627,576	149,764,303	418,398,785	1,687
48.	Washington	WA	L	38,973,094	47,454,800	6,706,575	12,013,818	105,148,287	
49.	West Virginia	WV	L	20,121,019	6,924,071	1,170,605	8,783,499	36,999,194	
50.	Wisconsin	WI	L	41,309,491	60,659,036	4,028,459	27,310,346	133,307,332	
51.	Wyoming	WY	L	6,318,595	1,777,468	429,002	1,818,600	10,343,665	
52.	American Samoa	AS	N						
53.	Guam	GU	N	312		2,546		2,858	
54.	Puerto Rico	PR	L	25,888,758	3,437,914	5,286,325	1,103,624	35,716,621	
55.	U.S. Virgin Islands	VI	N	8,030		12,022		20,052	
56.	Northern Mariana Islands	MP	N						
57.	Canada	CAN	L	1,514,261		75,219		1,589,480	
58.	Aggregate Other Aliens	OT	XXX	11,465,152	8,126	507,673		11,980,951	
59.	Subtotal	(a)	52	3,451,478,725	2,746,124,801	491,963,346	6,167,269,393	12,856,836,265	599,814,754
90.	Reporting entity contributions for employee benefits plans		XXX						
91.	Dividends or refunds applied to purchase paid-up additions and annuities		XXX	761,962,735	2,109,130			764,071,865	
92.	Dividends or refunds applied to shorten endowment or premium paying period		XXX						
93.	Premium or annuity considerations waived under disability or other contract provisions		XXX	18,344,482		9,102,065		27,446,547	
94.	Aggregate or other amounts not allocable by State		XXX						
95.	Totals (Direct Business)		XXX	4,231,785,942	2,748,233,931	501,065,411	6,167,269,393	13,648,354,677	599,814,754
96.	Plus Reinsurance Assumed		XXX	65,327,926	17,517,168		1,402,148,840	1,484,993,934	
97.	Totals (All Business)		XXX	4,297,113,868	2,765,751,099	501,065,411	7,569,418,233	15,133,348,611	599,814,754
98.	Less Reinsurance Ceded		XXX	453,186,903		108,746,997		561,933,900	
99.	Totals (All Business) less Reinsurance Ceded		XXX	3,843,926,965	2,765,751,099	392,318,414	7,569,418,233	14,571,414,711	599,814,754
DETAILS OF WRITE-INS									
58001.	Other foreign		XXX	11,465,152	8,126	507,673		11,980,951	
58002.	.....		XXX						
58003.	.....		XXX						
58998.	Summary of remaining write-ins for Line 58 from overflow page		XXX						
58999.	Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)		XXX	11,465,152	8,126	507,673		11,980,951	
9401.	.....		XXX						
9402.	.....		XXX						
9403.	.....		XXX						
9498.	Summary of remaining write-ins for Line 94 from overflow page		XXX						
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line 94 above)		XXX						

(L) Licensed or Chartered - Licensed Insurance Carrier or Domiciled RRG; (R) Registered - Non-domiciled RRGs; (Q) Qualified - Qualified or Accredited Reinsurer; (E) Eligible - Reporting Entities eligible or approved to write Surplus Lines in the state; (N) None of the above - Not allowed to write business in the state.

(a) Insert the number of L responses except for Canada and Other Alien.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	Federal Tax ID	NAIC Co Code	State of Domicile
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Mezzanine Investor, LLC	06-1041383		Delaware
CML Mezzanine Investor L, LLC	06-1041383		Delaware
CML Mezzanine Investor III, LLC	06-1041383		Delaware
CML Re Finance LLC	06-1041383		Delaware
MML Mezzanine Investor L, LLC	04-1590850		Delaware
Berkshire Way LLC	04-1590850		Delaware
CV Apts, LLC	04-1590850		Delaware
PL-Apts, LLC*	26-3911113		Delaware
CB-Apts, LLC	04-1590850		Delaware
WP-SC, LLC*	26-4441097		Delaware
MSP-SC, LLC	04-1590850		Delaware
Country Club Office Plaza LLC*	27-1435692		Delaware
Fern Street LLC	37-1732913		Delaware
MassMutual Retirement Services, LLC	04-1590850		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Mezzanine Investor, LLC	04-1590850		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		United States
MMC Equipment Finance LLC	04-1590850		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
Winmark Limited Funding, LLC	20-1217159		Delaware
MMAF Equipment Finance LLC 2009-A	27-1379258		Delaware
MMAF Equipment Finance LLC 2011-A	45-2589019		Delaware
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
MSC Holding Company, LLC	45-4376777		Delaware
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
0976761 B.C. Ltd.	None		Canada
MassMutual Holding LLC	04-2854319		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MML Investors Services, LLC	04-1590850		Massachusetts
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLISI Financial Alliances, LLC	41-2011634		Delaware
MassMutual International LLC	04-3313782		Delaware
MassMutual Asia Limited	None		Hong Kong

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MassMutual Asia Investors Ltd.	None		Hong Kong
MassMutual Guardian Limited	None		Hong Kong
MassMutual Insurance Consultants Limited	None		Hong Kong
MassMutual Services Limited	None		Hong Kong
MassMutual Trustees Limited	None		Hong Kong
Protective Capital (International) Limited	None		Hong Kong
MassMutual Life Insurance Company	None		Japan
MassMutual Internacional (Chile) SpA	None		Chile
MassMutual (Chile) Limitada	None		Chile
Compañía de Seguros CorpVida S.A.	None		Chile
MM Asset Management Holding LLC	45-4000072		Delaware
Babson Capital Management LLC	51-0504477		Delaware
Babson Capital Finance LLC	80-0875475		Delaware
Babson Capital Securities LLC	04-3238351		Delaware
Babson Capital Guernsey Limited	98-0437588		Guernsey
Babson Capital Europe Limited	98-0432153		United Kingdom
Almack Mezzanine GP III Limited	None		United Kingdom
Almack Holding Partnership GP Limited	None		United Kingdom
Almack Mezzanine Fund Limited	None		United Kingdom
Almack Mezzanine Fund II Limited	None		United Kingdom
Babson Capital Global Advisors Limited	None		United Kingdom
Babson Capital Japan KK	None		Japan
Cornerstone Real Estate Advisers LLC	55-0878489		Delaware
Cornerstone Real Estate Advisers Europe Securities B.V.	98-0590849		Netherlands
Cornerstone Real Estate Advisers Inc.	04-3238351		California
Cornerstone Real Estate Advisers Japan K.K.	None		Japan
Cornerstone Real Estate UK Holdings Limited	None		Delaware
Cornerstone Real Estate UK (No. 2) Limited	98-0654401		United Kingdom
Cornerstone Real Estate Advisers Europe LLP	98-0654388		United Kingdom
Cornerstone Real Estate Advisers Europe Finance LLP	98-0654412		United Kingdom
Cornerstone Managing Director Europe LLC	55-0878489		Delaware
Babson Capital Asia Limited	None		Hong Kong
Babson Capital Australia Holding Company Pty Ltd.	None		Australia
Babson Capital Australia Pty Ltd.	None		Australia
Babson Capital Cornerstone Asia Limited	None		Hong Kong
Wood Creek Capital Management LLC	04-1590850		Delaware
Wood Creek Index Company, LLC	26-3115362		Delaware
Babson Capital Floating Rate Income Fund Management, LLC	04-1590850		Delaware
Babson Capital Core Fixed Income Management LLC	27-3523916		Delaware
Babson Capital Total Return Management LLC	27-3524203		Delaware
Babson Capital Loan Partners I GP, LLC	51-0504477		Delaware

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	Federal Tax ID	NAIC Co Code	State of Domicile
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
SDCOS Management LLC	04-1590850		Delaware
Credit Strategies Management LLC	04-1590850		Delaware
Great Lakes III GP, LLC	04-1590850		Delaware
Loan Strategies Management LLC	04-1590850		Delaware
Mezzco LLC	04-1590850		Delaware
Mezzco II LLC	02-0767001		Delaware
Mezzco III LLC	41-2280126		Delaware
Mezzco Australia LLC	90-0666326		Delaware
Babson Capital Cornerstone Managing Director ASIA LLC	51-0504477		Delaware
Somerset Special Opportunities Management LLC	04-1590850		Delaware
Winterset Management LLC	04-1590850		Delaware
Oppenheimer Acquisition Corp.	84-1149206		Delaware
OppenheimerFunds, Inc.	13-2527171		Colorado
OppenheimerFunds Distributor, Inc.	13-2953455		New York
Oppenheimer Real Asset Management, Inc.	84-1106295		Delaware
OFI Global Institutional, Inc.	13-4160541		New York
OFI Global Trust Company	13-3459790		New York
HarbourView Asset Management Corporation	22-2697140		New York
Trinity Investment Management Corporation	25-1951632		Pennsylvania
OFI SteelPath, Inc.	84-1128397		Delaware
Shareholder Services, Inc.	84-1066811		Colorado
OFI Global Asset Management, Inc.	84-0765063		Delaware
OFI Private Investments Inc.	91-2036414		New York
OppenheimerFunds International, Ltd.	None		Ireland
Tremont Group Holdings, Inc.	62-1210532		New York
Tremont Partners, Inc.	06-1121864		Connecticut
Tremont Capital Management (Ireland) Limited	None		Ireland
Tremont GP, Inc.	20-8215352		Delaware
Settlement Agent LLC	90-0874510		Delaware
Tremont (Bermuda) Limited	None		Bermuda
MassMutual Baring Holding LLC	04-1590850		Delaware
Baring Asset Management LLC	98-0241935		Massachusetts
MassMutual Holdings (Bermuda) Limited	None		Bermuda
Baring Asset Management Limited	98-0241935		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring International Investment Management Holdings	98-0457587		United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576		United Kingdom
Baring Asset Management GmbH	98-0465031		Germany
Baring Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

12.3

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong
Baring Asset Management Korea Limited	None		Korea
Baring Asset Management (Japan) Limited	98-0236449		Japan
Baring Asset Management (Australia) Pty Limited	98-0457456		Australia
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland
Baring Asset Management (CI) Limited	98-0524275		Guernsey
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Baring France SAS	98-0497550		France
Baring Korea Limited	None		South Korea
Baring Fund Managers Limited	98-0457586		United Kingdom
Baring Pension Trustees Limited	98-0457574		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts
First Mercantile Trust Company	62-0951563		Tennessee
HYP Management LLC	04-3324233		Delaware
MML Realty Management Corporation	04-2443240		Massachusetts
WW-Apts, LLC	27-0607263		Delaware
MML Mezzanine Investor II, LLC	04-1590850		Delaware
MML Mezzanine Investor III, LLC	04-1590850		Delaware
MassMutual External Benefits Group LLC	27-3576835		Delaware
MML Re Finance LLC	04-1590850		Delaware
MP-Apts, LLC	04-1590850		Delaware
Other Affiliates:			
580 Walnut Cincinnati LLC	27-4349154		Delaware
Baring Emerging Market Equity Fund	27-0439942		Delaware
C A F I, Inc.	52-2274685		Maryland
Eighth Note, Inc.	None		Delaware
Invicta Advisors LLC	56-2574604		Delaware
Jefferies Finance LLC*	27-0105644		Delaware
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental LLC	04-1590850		Delaware
Babson Affiliates & Funds:			
Almack Mezzanine Fund I LP*	None		United Kingdom
Almack Mezzanine Fund II Unleveraged LP *	None		United Kingdom
Almack Mezzanine Fund III LP*	None		United Kingdom
Babson Capital High Yield LLC*	55-0886109		Delaware
Babson Capital Core Fixed Income Fund L.P.*	27-3524082		Delaware
Babson Capital Floating Rate Income Fund, L.P.*	27-3330830		Delaware
Babson Capital Global Investment Funds plc	None		United Kingdom
Babson Capital Global Umbrella Fund plc	None		United Kingdom
Babson Capital Global Investment Fund 2 plc*	None		Ireland

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Babson Capital Total Return Fund L.P.*	27-3524290		Delaware
Babson CLO Ltd. 2004-I	None		Cayman Islands
Babson CLO Ltd. 2005-I	None		Cayman Islands
Babson CLO Ltd. 2005-II	None		Cayman Islands
Babson CLO Ltd. 2005-III*	None		Cayman Islands
Babson CLO Ltd. 2006-I	None		Cayman Islands
Babson CLO Ltd. 2006-II	None		Cayman Islands
Babson CLO Ltd. 2007-I	None		Cayman Islands
Babson CLO Ltd. 2011-I	None		Cayman Islands
Babson CLO Ltd. 2012-I	None		Cayman Islands
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-I	None		Cayman Islands
Babson Mid-Market CLO Ltd. 2007-II	None		Cayman Islands
Benton Street Partners I, L.P.*	98-0536233		Cayman Islands
Benton Street Partners II, L.P.	98-0536199		Cayman Islands
Clear Lake CLO, Ltd.	None		Cayman Islands
Connecticut Valley Structured Credit CDO II, Ltd.	None		Cayman Islands
Connecticut Valley Structured Credit CDO III, Ltd.	None		Cayman Islands
Connecticut Valley CLO Fund IV, Ltd.	None		Cayman Islands
Diamond Lake CLO, Ltd.	None		Cayman Islands
Duchess I CDO S.A.	None		United Kingdom
Duchess III CDO S.A.	None		United Kingdom
Duchess IV CDO S.A.	None		United Kingdom
Duchess V CDO S.A.	None		United Kingdom
Duchess VI CLO B.V.	None		United Kingdom
Duchess VII CLO B.V.	None		United Kingdom
Fugu CLO B.V.	None		United Kingdom
Fugu Credit Plc	None		United Kingdom
Gateway Mezzanine Partners I, L.P.*	80-0691253		Delaware
Gateway Mezzanine Partners I Trust	None		Cayman Islands
Great Lakes II LLC*	71-1018134		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
Great Lakes LLC*	56-2505390		Delaware
Hampden CBO Ltd	None		Cayman Islands
Intermodal Holding II LLC	46-2344300		Delaware
Invicta Holdings LLC	56-2574568		Massachusetts
Loan Strategies Funding LLC	None		Cayman Islands
Malin CLO B.V.	None		United Kingdom
Newton CDO Ltd	None		Cayman Islands
Osprey CDO 2006-1	None		Cayman Islands

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Rockall CLO B.V.	None		United Kingdom
Saint James River CDO, Ltd.	None		Cayman Islands
Salomon Trust 2001-MM	None		Delaware
Sapphire Valley CDO I, Ltd.	None		Cayman Islands
SDCOS L.P.	74-3182902		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
Suffield CLO, Limited	None		Cayman Islands
Summit Lake CLO, Ltd.	None		Cayman Islands
Sweet Tree Holding 1 LLC	46-3123110		Delaware
Tower Square Capital Partners, L.P.*	04-3722906		Delaware
Tower Square Capital Partners II, L.P.*	30-0336246		Delaware
Tower Square Capital Partners II-A, L.P.*	32-0160190		Delaware
Tower Square Capital Partners III, L.P.*	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.*	41-2280129		Delaware
U.S. Trailer Holdings II LLC	46-2104352		Delaware
U.S. WIG Holding L.P.	46-1500495		Delaware
Victoria Falls CLO, Ltd.	None		Cayman Islands
Vinacasa CLO, Ltd.	None		Cayman Islands
Whately CDO, Ltd.	None		Cayman Islands
Winterset Capital Partners, L.P.*	None		Cayman Islands
Wood Creek Multi Asset Fund, L.P.*	20-4981369		Delaware
Wood Creek Venture Fund LLC	04-1590850		Massachusetts
Baring Affiliates & Funds:			
Baring All Country World ex US Equity Fund	45-4184261		Delaware
Baring Emerging Market Corp Debt Fund*	None		Ireland
Baring Focused EAFE Equity Fund*	11-3789446		Delaware
Baring Focused International Equity Fund	01-0850479		Delaware
Baring Global Dynamic Asset Allocation Fund*	30-0607379		Delaware
Baring International Equity Fund	39-2059577		Delaware
Baring International Small Cap Equity Fund *	26-4142796		Delaware
Baring World Equity Fund	46-1197222		Delaware
Multi-Employer Global Aggregate Diversified Portfolio	26-1896226		Delaware
Cornerstone Affiliates & Funds:			
11 Fan Pier Boulevard Member LLC*	90-0728785		Delaware
12-18 West 55th Street Predevelopment, LLC*	20-2548283		Delaware
21 West 86 LLC*	45-5257904		Delaware
50 Northern Avenue Member LLC*	80-0729557		Delaware
Ygnatio Valley Funding	20-5481477		Delaware
AT Mid-Atlantic Office Portfolio LLC*	45-2779931		Delaware
Babson Mezzanine Realty Investors I*	20-4570515		Delaware
Babson Mezzanine Realty Investors II*	24-1446970		Delaware

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
CHC/RFP VI Core LLC	04-1590850		Delaware
Cornerstone Apartment Fund I, LLC	06-1595820		Delaware
Cornerstone Apartment Venture III, LLC	20-5786329		Delaware
Cornerstone Austin Industrial LP	20-5775782		Delaware
Cornerstone Austin Park Central I LP*	56-2639862		Delaware
Cornerstone Core Mortgage Fund I LP	27-1701733		Delaware
Cornerstone Core Mortgage Venture I LP	27-1701622		Delaware
Cornerstone Fort Pierce Development LLC*	56-2630592		Delaware
Cornerstone Global REIT Corporation*	20-8730751		Delaware
Cornerstone Holding LP	20-5578165		Delaware
Cornerstone Hotel Income and Equity Fund II (PF) LP	26-1528817		Delaware
Cornerstone Real Estate Fund VIII (PF) LP	27-5209432		Delaware
Cornerstone Real Estate Fund VIII LP	27-0547156		Delaware
Cornerstone Non-REIT Holding LLC	20-5567494		Delaware
CREA/Legacy Federal Way LLC	26-1816861		Delaware
CREA/LYON West Gateway, LLC*	26-2399532		Delaware
CREA/Nexus Anaheim Corners Holdings LLC	27-2934589		Delaware
CREA/PPC Venture LLC*	20-0348173		Delaware
CREA/Windstar Dublin-Pleasanton LLC*	20-4087568		Delaware
Fallon Cornerstone One MPD LLC*	26-1611591		Delaware
FP Development LLC *	20-3347091		Delaware
Flower Mound Warehouse*	20-4834392		Delaware
Gallery Place Equity LLC	11-3677334		Delaware
Gracechurch London Holdings LLC*	46-1586427		Delaware
Hanover Preferred Facility LLC*	20-8298948		Delaware
Infinity SCD Ltd.	None		Connecticut
Johnston Groves LLC	20-4819358		Delaware
MassMutual Boston Capital Mezzanine Partners II LP*	20-4570515		Delaware
Metropolitan At Lorton*	20-5984759		Delaware
MM Greenhill Office LLC*	46-3317841		Massachusetts
PO Parsippany Office Portfolio LLC*	46-0808569		Delaware
Riva Portland LLC	30-0713071		Delaware
Sawgrass Village Shopping Center LLC*	27-2977720		Delaware
Turnpike Executive Park LLC	46-0606690		Delaware
UK LIW Manager LLC	45-4606547		Delaware
UK LIW Member LLC	45-4606547		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
Waterford Development Associates	20-2970495		Delaware
WeHo Domain LLC	46-3122029		Delaware
Wesley Chapel Theaters LLC*	26-2384708		Delaware

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MassMutual Premier Funds:			
MassMutual Barings Dynamic Allocation Fund	45-3168892		Massachusetts
MassMutual Premier Balanced Fund	04-3212054		Massachusetts
MassMutual Premier Capital Appreciation Fund	51-0529336		Massachusetts
MassMutual Premier Core Bond Fund	04-3277549		Massachusetts
MassMutual Premier Disciplined Value Fund	04-3539084		Massachusetts
MassMutual Premier High Yield Fund	04-3520009		Massachusetts
MassMutual Premier Inflation-Protected and Income Fund	03-0532475		Massachusetts
MassMutual Premier International Equity Fund	04-3212044		Massachusetts
MassMutual Premier International Bond Fund	26-1345534		Massachusetts
MassMutual Premier Small/Mid Cap Opportunities Fund	04-3224705		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Premier Value Fund	04-3277550		Massachusetts
MassMutual Select Funds:			
MassMutual Select Blue Chip Growth Fund	04-3556992		Massachusetts
MassMutual Select Diversified Value Fund	01-0821120		Massachusetts
MassMutual Select Focused Value Fund	04-3512590		Massachusetts
MassMutual Select Fundamental Value Fund	04-3584138		Massachusetts
MassMutual Select Growth Opportunities Fund	04-3512589		Massachusetts
MassMutual Select Large Cap Value Fund	04-3513019		Massachusetts
MassMutual Select Mid Cap Growth Equity II Fund	04-3512596		Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935		Massachusetts
MassMutual Select Overseas Fund	04-3557000		Massachusetts
MassMutual Select Small Cap Growth Equity Fund	04-3464205		Massachusetts
MassMutual Select Small Company Value Fund	04-3584140		Massachusetts
MassMutual Select S&P Mid Cap Index Fund	45-5349772		Massachusetts
MassMutual Select Russell 2000 Small Cap Index Fund	45-5366542		Massachusetts
MassMutual Select MSCI EAFE International Index Fund	45-5357167		Massachusetts
MML Series Investment Funds:			
MML China Fund	26-2997893		Massachusetts
MML Focused Equity Fund Class I	45-3612851		Massachusetts
MML Fundamental Growth Fund Class I	45-3612938		Massachusetts
MML Fundamental Value Fund Class I	27-2959469		Massachusetts
MassMutual RetireSMART Funds:			
MassMutual RetireSMART 2015 Fund	27-1933828		Massachusetts
MassMutual RetireSMART 2035 Fund	27-1933389		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464		Massachusetts
Oppenheimer Funds:			
HarbourView CLO 2006-1 Limited	None		Cayman Islands

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
OFI Institutional Commodities Strategy II	26-1143312		Delaware
Oppenheimer Diversified Alternatives Fund	46-1232921		Delaware
Oppenheimer Capital Appreciation Fund	13-3054122		Massachusetts
Oppenheimer Main Street Fund	84-1073463		Massachusetts
Oppenheimer Global Real Estate Fund	46-1604428		Delaware
Oppenheimer Real Estate Fund	22-3849391		Massachusetts
Rye Select Broad Market Prime	13-3949688		Delaware

*This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
...0435	Massachusetts Mut Life Ins Co	...65935	04-1590850	3848388	0000225602	.....	Massachusetts Mutual Life Insurance Company (MMLIC)	..MA	.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0435	CM Life Ins Co	...93432	06-1041383	.....	.....	.....	C.M. Life Insurance Company	..CT	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0435	MML Baystate Life Ins Co	...70416	43-0581430	.....	0000924777	.....	MML Bay State Life Insurance Company	..CT	..DS	C.M. Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			06-1041383	.....	.....	.....	CML Mezzanine Investor, LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			06-1041383	.....	.....	.....	CML Mezzanine Investor L, LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			06-1041383	.....	.....	.....	CML Mezzanine Investor III, LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			06-1041383	.....	.....	.....	CML Re Finance LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	MML Mezzanine Investor L, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	Berkshire Way LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	CV Apts, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			26-3911113	.....	.....	.....	PL-Apts, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..92.200	MMLIC .....	.....
...0000			26-3911113	.....	.....	.....	PL-Apts, LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..7.800	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	CB-Apts, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			26-4441097	.....	.....	.....	WP-SC, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..81.400	MMLIC .....	.....
...0000			26-4441097	.....	.....	.....	WP-SC, LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..18.600	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	MSP-SC, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			27-1435692	.....	.....	.....	Country Club Office Plaza LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..88.100	MMLIC .....	.....
...0000			27-1435692	.....	.....	.....	Country Club Office Plaza LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..11.900	MMLIC .....	.....
...0000			37-1732913	.....	.....	.....	Fern Street LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	MassMutual Retirement Services, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-3356880	.....	0000943903	.....	MML Distributors LLC	..MA	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..99.000	MMLIC .....	.....
...0000			04-3356880	.....	0000943903	.....	MML Distributors LLC	..MA	..DS	MassMutual Holding LLC	Ownership.....	..1.000	MMLIC .....	.....
...0000							MML Investment Advisers, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	MML Mezzanine Investor, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			46-3238013	.....	.....	.....	MML Strategic Distributors, LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			06-1563535	2881445	0001103653	.....	The MassMutual Trust Company, FSB	..US	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			04-1590850	.....	.....	.....	MMC Equipment Finance LLC	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
...0000			26-0073611	.....	.....	.....	MassMutual Asset Finance LLC	..DE	..DS	MMC Equipment Finance LLC	Ownership.....	..99.600	MMLIC .....	.....
...0000			26-0073611	.....	.....	.....	MassMutual Asset Finance LLC	..DE	..DS	C.M. Life Insurance Company	Ownership.....	..0.400	MMLIC .....	.....
...0000			20-1217159	.....	.....	.....	Winmark Limited Funding, LLC	..DE	..DS	MassMutual Asset Finance LLC	Ownership.....	..100.000	MMLIC .....	.....
...0000			27-1379258	.....	.....	.....	MMAF Equipment Finance LLC 2009-A	..DE	..DS	MassMutual Asset Finance LLC	Ownership.....	..100.000	MMLIC .....	.....
...0000			45-2589019	.....	.....	.....	MMAF Equipment Finance LLC 2011-A	..DE	..DS	MassMutual Asset Finance LLC	Ownership.....	..100.000	MMLIC .....	.....

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.0000			04-1590850				MML Private Placement Investment Company I, LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			45-4376777				MSC Holding Company, LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-3341767				MassMutual Holding MSC, Inc.	.MA	DS	MSC Holding Company, LLC	Ownership	100.000	MMLIC	
.0000							0976761 B.C. Ltd.	.CAN	DS	MassMutual Holding MSC, Inc.	Ownership	100.000	MMLIC	
.0000			04-2854319	2392316			MassMutual Holding LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			06-1597528				MassMutual Assignment Company	.NC	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-1590850		0001399869		MassMutual Capital Partners LLC	.DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-1590850		0000701059		MML Investors Services, LLC	.MA	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-1590850				MML Insurance Agency, LLC	.MA	DS	MML Investors Services, LLC	Ownership	100.000	MMLIC	
.0000			41-2011634		0001456663		MMLISI Financial Alliances, LLC	.DE	DS	MML Investors Services, LLC	Ownership	51.000	MMLIC	
.0000			04-3313782				MassMutual International LLC	.DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000							MassMutual Asia Limited	.HKG	DS	MassMutual International LLC	Ownership	100.000	MMLIC	
.0000							MassMutual Asia Investors Ltd.	.HKG	DS	MassMutual Asia Limited	Ownership	100.000	MMLIC	
.0000							MassMutual Guardian Limited	.HKG	DS	MassMutual Asia Limited	Ownership	100.000	MMLIC	
.0000							MassMutual Insurance Consultants Limited	.HKG	DS	MassMutual Asia Limited	Ownership	100.000	MMLIC	
.0000							MassMutual Services Limited	.HKG	DS	MassMutual Asia Limited	Ownership	100.000	MMLIC	
.0000							MassMutual Trustees Limited	.HKG	DS	MassMutual Asia Limited	Ownership	80.000	MMLIC	
.0000							Protective Capital (International) Limited	.HKG	DS	MassMutual Asia Limited	Ownership	100.000	MMLIC	
.0000							MassMutual Life Insurance Company	.JPN	DS	MassMutual International LLC	Ownership	100.000	MMLIC	
.0000							MassMutual Internacional (Chile) SpA	.CHL	DS	MassMutual International LLC	Ownership	100.000	MMLIC	
.0000							MassMutual (Chile) Limitada	.CHL	DS	MassMutual International LLC	Ownership	100.000	MMLIC	
.0000							Compania de Seguros CorpVida S.A.	.CHL	DS	MassMutual International LLC	Ownership	33.500	MMLIC	
.0000			45-4000072				MM Asset Management Holding LLC	.DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			51-0504477		0000009015		Babson Capital Management LLC	.DE	DS	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC	
.0000			80-0875475				Babson Capital Finance LLC	.DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.0000			04-3238351		0000930012		Babson Capital Securities LLC	.DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.0000			98-0437588				Babson Capital Guernsey Limited	.GGY	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.0000			98-0432153				Babson Capital Europe Limited	.GBR	DS	Babson Capital Guernsey Limited	Ownership	100.000	MMLIC	
.0000							Almack Mezzanine GP III Limited	.GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Almack Holding Partnership GP Limited	.GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Almack Mezzanine Fund Limited	.GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Almack Mezzanine Fund II Limited	.GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Babson Capital Global Advisors Limited	.GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Babson Capital Japan KK	.JPN	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.0000			55-0878489	3456895	0001379495		Cornerstone Real Estate Advisers LLC	.DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.0000							Cornerstone Real Estate Advisers Europe							
.0000			98-0590849				Securities B.V.	.NLD	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000			04-3238351	3456895	0001011148		Cornerstone Real Estate Advisers Inc.	.CA	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000							Cornerstone Real Estate Advisers Japan							
.0000							K.K.	.JPN	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000							Cornerstone Real Estate UK Holdings							
.0000							Limited	.DE	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000			98-0654401				Cornerstone Real Estate UK (No. 2) Limited							
.0000								.GBR	DS	Limited	Ownership	100.000	MMLIC	
.0000			98-0654388				Cornerstone Real Estate Advisers Europe LLP	.GBR	DS	Cornerstone Real Estate UK Holdings Limited	Ownership	100.000	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000.....			98-0654412				Cornerstone Real Estate Advisers Europe Finance LLP	...GBR...	...DS...	Cornerstone Real Estate UK Holdings Limited	Ownership.....	...100.000...	MMLIC	
.....0000.....			55-0878489				Cornerstone Managing Director Europe LLC	...DE...	...DS...	Cornerstone Real Estate Advisers LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....							Babson Capital Asia Limited	...HKG...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....							Babson Capital Australia Holding Company Pty Ltd.	...AUS...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....							Babson Capital Australia Holding Company Pty Ltd.	...AUS...	...DS...	Babson Capital Australia Holding Company Pty Ltd.	Ownership.....	...100.000...	MMLIC	
.....0000.....							Babson Capital Cornerstone Asia Limited	...HKG...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Wood Creek Capital Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			26-3115362				Wood Creek Index Company, LLC	...DE...	...DS...	Wood Creek Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....							Babson Capital Floating Rate Income Fund Management, LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....					0001501011		Babson Capital Core Fixed Income Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			27-3523916		0001503878		Babson Capital Total Return Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			27-3524203		0001503879			...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			51-0504477				Babson Capital Loan Partners I GP, LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			98-0536233				Benton Street Advisors, Inc.	...CYM...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				SDCOS Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Credit Strategies Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Great Lakes III GP, LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Loan Strategies Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Mezzco LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			02-0767001				Mezzco II LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...98.400...	MMLIC	
.....0000.....			41-2280126				Mezzco III LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...99.300...	MMLIC	
.....0000.....			90-0666326				Mezzco Australia LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...72.000...	MMLIC	
.....0000.....							Babson Capital Cornerstone Managing Director ASIA LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			51-0504477				Somerset Special Opportunities Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Winterset Management LLC	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			04-1590850				Oppenheimer Acquisition Corp.	...DE...	...DS...	Babson Capital Management LLC	Ownership.....	...100.000...	MMLIC	
.....0000.....			84-1149206	2897101			MassMutual Asset Management Holding LLC	...DE...	...DS...	Oppenheimer Acquisition Corp.	Ownership.....	...96.600...	MMLIC	
.....0000.....			13-2527171	2679183	0000820031		OppenheimerFunds, Inc.	...CO...	...DS...	Oppenheimer Acquisition Corp.	Ownership.....	...100.000...	MMLIC	
.....0000.....			13-2953455		0000276541		OppenheimerFunds Distributor, Inc.	...NY...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			84-1106295				Oppenheimer Real Asset Management, Inc.	...DE...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			13-4160541	3458125	0001179479		OFI Global Institutional, Inc.	...NY...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....							OFI Institutional Asset Management, Inc.	...NY...	...DS...	OFI Institutional Asset Management, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			13-3459790	2914875			OFI Global Trust Company	...NY...	...DS...	OFI Institutional Asset Management, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....							HarbourView Asset Management Corporation	...NY...	...DS...	OFI Institutional Asset Management, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			25-1951632		0000099782		Trinity Investment Management Corporation	...PA...	...DS...	OFI Institutional Asset Management, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			84-1128397		0000857468		OFI SteelPath, Inc.	...DE...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			84-1066811		0000276398		Shareholder Services, Inc.	...CO...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			84-0765063		0001041674		OFI Global Asset Management, Inc.	...DE...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			91-2036414		0001179480		OFI Private Investments Inc.	...NY...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....							OppenheimerFunds International, Ltd.	...JRL...	...DS...	OppenheimerFunds, Inc.	Ownership.....	...100.000...	MMLIC	
.....0000.....			62-1210532				Tremont Group Holdings, Inc.	...NY...	...DS...	Oppenheimer Acquisition Corp.	Ownership.....	...100.000...	MMLIC	
.....0000.....			06-1121864		0000764139		Tremont Partners, Inc.	...CT...	...DS...	Tremont Group Holdings, Inc.	Ownership.....	...100.000...	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.0000							Tremont Capital Management (Ireland) Limited	.JRL	DS	Tremont Group Holdings, Inc.	Ownership	100.000	MMLIC	
.0000			20-8215352				Tremont GP, Inc.	.DE	DS	Tremont Group Holdings, Inc.	Ownership	100.000	MMLIC	
.0000			90-0874510				Settlement Agent LLC	.DE	DS	Tremont Group Holdings, Inc.	Ownership	100.000	MMLIC	
.0000							Tremont (Bermuda) Limited	.BMU	DS	Tremont Group Holdings, Inc.	Ownership	100.000	MMLIC	
.0000			04-1590850				MassMutual Baring Holding LLC	.DE	DS	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC	
.0000			98-0241935	2363071			Baring Asset Management LLC	.MA	DS	MassMutual Baring Holding LLC	Ownership	100.000	MMLIC	
.0000							MassMutual Holdings (Bermuda) Limited	.BMU	DS	MassMutual Baring Holding LLC	Ownership	100.000	MMLIC	
.0000			98-0241935				Baring Asset Management Limited	.GBR	DS	MassMutual Holdings (Bermuda) Limited	Ownership	100.000	MMLIC	
.0000			98-0457328				Baring International Investment Limited	.GBR	DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.0000							Baring International Investment Management Holdings	.GBR	DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.0000			98-0457587				Baring Asset Management UK Holdings Limited	.GBR	DS	Baring International Investment Management Holdings	Ownership	100.000	MMLIC	
.0000			98-0457576							Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0465031				Baring Asset Management GmbH	.DEU	DS	Limited	Ownership	100.000	MMLIC	
.0000			98-0524271				Baring Asset Management (Asia) Holdings Limited	.HKG	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0457465				Baring International Fund Managers (Bermuda) Limited	.BMU	DS	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0457463				Baring Asset Management (Asia) Limited	.HKG	DS	Limited	Ownership	100.000	MMLIC	
.0000							Baring Asset Management Korea Limited	.KOR	DS	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC	
.0000			98-0236449				Baring Asset Management (Japan) Limited	.JPN	DS	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0457456				Baring Asset Management (Australia) Pty Limited	.AUS	DS	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0524272				Baring International Fund Managers (Ireland) Limited	.JRL	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0524275				Baring Asset Management (CI) Limited	.GGY	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0457707				Baring SICE (Taiwan) Limited	.TWN	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0497550				Baring France SAS	.FRA	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000							Baring Korea Limited	.KOR	DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0457586				Baring Fund Managers Limited	.GBR	DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.0000			98-0457574				Baring Pension Trustees Limited	.GBR	DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.0000			98-0457578				Baring Investment Services Limited	.GBR	DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.0000			04-3548444				MassMutual International Holding MSC, Inc.	.MA	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			62-0951563	1160004	0001259664		First Mercantile Trust Company	.TN	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-3324233				HYP Management LLC	.DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-2443240				MML Realty Management Corporation	.MA	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			27-0607263				WW-Apts, LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-1590850				MML Mezzanine Investor II, LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-1590850				MML Mezzanine Investor III, LLC	.DE	DS	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Perce-ntage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000.....			27-3576835				MassMutual External Benefits Group LLC	..DE.....	..DS.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....			04-1590850				MML Re Finance LLC	..DE.....	..DS.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....			04-1590850				MP-Apts, LLC	..DE.....	..DS.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....			27-4349154				580 Walnut Cincinnati LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..50.000.....	MMLIC	
.....0000.....			52-2274685				C A F I, Inc.	..MD.....	..DS.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..69.900.....	MMLIC	
.....0000.....							Eighth Note, Inc.	..DE.....	..DS.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..16.600.....	MMLIC	
.....0000.....			56-2574604				Invicta Advisors LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..89.000.....	MMLIC	
.....0000.....			27-0105644				Jefferies Finance LLC	..DE.....	..NIA.....	Company	Ownership.....	..45.000.....	MMLIC	1
.....0000.....			27-0105644				Jefferies Finance LLC	..DE.....	..NIA.....	Babson Capital Management LLC	Ownership.....	..5.000.....	MMLIC	
.....0000.....			27-0439942				Baring Emerging Market Equity Fund	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	
.....0000.....			04-1590850		0000067160		MML Private Equity Fund Investor LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....			04-1590850				MM Private Equity Intercontinental LLC	..DE.....	..NIA.....	MML Private Equity Fund Investor LLC	Ownership.....	..100.000.....	MMLIC	
.....0000.....							Almack Mezzanine Fund I LP	..GBR.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..38.900.....	MMLIC	
.....0000.....							Almack Mezzanine Fund I LP	..GBR.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	..4.000.....	MMLIC	
.....0000.....							Almack Mezzanine Fund I LP	..GBR.....	..NIA.....	Babson Capital Europe Limited	Management.....		MMLIC	
.....0000.....							Almack Mezzanine Fund II Unleveraged LP	..GBR.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..72.900.....	MMLIC	
.....0000.....							Almack Mezzanine Fund II Unleveraged LP	..GBR.....	..NIA.....	Babson Capital Europe Limited	Management.....		MMLIC	
.....0000.....							Almack Mezzanine Fund III LP	..GBR.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..33.200.....	MMLIC	
.....0000.....							Almack Mezzanine Fund III LP	..GBR.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	..3.600.....	MMLIC	
.....0000.....							Almack Mezzanine Fund III LP	..GBR.....	..NIA.....	Babson Capital Europe Limited	Management.....		MMLIC	
.....0000.....			55-0886109		0001321302		Babson Capital High Yield LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..80.000.....	MMLIC	
.....0000.....			55-0886109		0001321302		Babson Capital High Yield LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	..20.000.....	MMLIC	
.....0000.....			55-0886109		0001321302		Babson Capital High Yield LLC	..DE.....	..NIA.....	Babson Capital Management LLC	Management.....		MMLIC	
.....0000.....			27-3524082		0001503878		Babson Capital Core Fixed Income Fund L.P.	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....			27-3524082		0001503878		Babson Capital Core Fixed Income Fund L.P.	..DE.....	..NIA.....	Company	Ownership.....		MMLIC	
.....0000.....			27-3330830		0001521404		Babson Capital Floating Rate Income Fund, L.P.	..DE.....	..NIA.....	Babson Capital Management LLC	Management.....		MMLIC	
.....0000.....			27-3330830		0001521404		Babson Capital Floating Rate Income Fund, L.P.	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.600.....	MMLIC	
.....0000.....					0001502146		Babson Capital Global Investment Funds plc	..DE.....	..NIA.....	Babson Capital Management LLC	Management.....		MMLIC	
.....0000.....							Babson Capital Global Investment Funds plc	..GBR.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..0.700.....	MMLIC	
.....0000.....					0001582591		Babson Capital Global Investment Fund 2 plc	..JRL.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000.....	MMLIC	
.....0000.....							Babson Capital Global Investment Fund 2 plc	..JRL.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000					0001515694		Babson Capital Global Umbrella Fund plc	..GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..16.700	MMLIC	
.....0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	..DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..78.100	MMLIC	
.....0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..3.900	MMLIC	
.....0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			27-3524290		0001503879		Babson Capital Total Return Fund L.P.	..DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000			27-3524290		0001503879		Babson Capital Total Return Fund L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000							Babson CLO Ltd. 2004-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Babson CLO Ltd. 2005-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	7
.....0000							Babson CLO Ltd. 2005-II	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	8
.....0000							Babson CLO Ltd. 2005-III	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	3
.....0000							Babson CLO Ltd. 2005-III	..CYM	NIA	MassMutual Holding LLC	Influence.....		MMLIC	3
.....0000							Babson CLO Ltd. 2006-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	9
.....0000							Babson CLO Ltd. 2006-II	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	10
.....0000							Babson CLO Ltd. 2007-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	11
.....0000							Babson CLO Ltd. 2011-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Babson CLO Ltd. 2012-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Babson CLO Ltd. 2012-II	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Babson CLO Ltd. 2013-I	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Babson Mid-Market CLO Ltd. 2007-II	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	14
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	NIA	MassMutual Capital Partners LLC	Ownership.....	..95.900	MMLIC	4
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	NIA	Babson Capital Management LLC	Management.....		MMLIC	4
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	NIA	C.M. Life Insurance Company	Ownership.....	..0.300	MMLIC	4
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..3.800	MMLIC	4
.....0000			98-0536199				Benton Street Partners II, L.P.	..CYM	NIA	Babson Capital Management LLC	Ownership.....	..98.800	MMLIC	5
.....0000							Clear Lake CLO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Connecticut Valley Structured Credit CDO II, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	12
.....0000							Connecticut Valley Structured Credit CDO III, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Connecticut Valley CLO Fund IV, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Diamond Lake CLO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000				4007418			Duchess I CDO S.A.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000				4007445			Duchess III CDO S.A.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Duchess IV CDO S.A.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Duchess V CDO S.A.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000				3981641			Duchess VI CLO B.V.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000				4007502			Duchess VII CLO B.V.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Fugu CLO B.V.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	6
.....0000							Fugu Credit Plc	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	6
.....0000										Massachusetts Mutual Life Insurance Company				
.....0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..85.700	MMLIC	
.....0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..10.500	MMLIC	
.....0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000							Gateway Mezzanine Partners I Trust	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000										Massachusetts Mutual Life Insurance Company				
.....0000			71-1018134				Great Lakes II LLC	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..11.200	MMLIC	
.....0000			71-1018134				Great Lakes II LLC	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..1.000	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000			37-1708623		0001565779		Great Lakes III, L.P.	..DE	NIA	Babson Capital Management LLC Massachusetts Mutual Life Insurance Company	Ownership.....	..43.800	MMLIC	
.....0000			56-2505390				Great Lakes LLC	..DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..4.400	MMLIC	
.....0000			56-2505390				Great Lakes LLC	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..0.500	MMLIC	
.....0000							Hampden CBO Ltd	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000			46-2344300				Intermodal Holdings II LLC	..DE	NIA	Babson Capital Management LLC Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	
.....0000			56-2574568				Invicta Holdings LLC	..MA	NIA	Company	Ownership.....	..85.600	MMLIC	
.....0000							Loan Strategies Funding LLC	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	2
.....0000							Malin CLO B.V.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Newton CDO Ltd	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Osprey CDO 2006-1	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Rockall CLO B.V.	..GBR	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Saint James River CDO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Salomon Trust 2001-MM	..DE	NIA	Cornerstone Real Estate Advisers LLC	Influence.....		MMLIC	
.....0000							Sapphire Valley CDO I, Ltd.	..CYM	NIA	Babson Capital Management LLC Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	13
.....0000			74-3182902				SDCOS L.P.	..DE	NIA	Company Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	..DE	NIA	Company	Ownership.....	..30.700	MMLIC	
.....0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..1.400	MMLIC	
.....0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000							Suffield CLO, Limited	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Summit Lake CLO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000			46-3123110				Sweet Tree Holding 1 LLC	..DE	NIA	Babson Capital Management LLC Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	
.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	NIA	Company	Ownership.....	..43.800	MMLIC	
.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..0.800	MMLIC	
.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	NIA	MassMutual Holding LLC Massachusetts Mutual Life Insurance Company	Ownership.....	..3.100	MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	NIA	Company	Ownership.....	..22.400	MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..3.900	MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	NIA	MassMutual Holding LLC Massachusetts Mutual Life Insurance Company	Ownership.....	..6.300	MMLIC	
.....0000			32-0160190				Tower Square Capital Partners II-A, L.P.	..DE	NIA	Company	Ownership.....	..76.800	MMLIC	
.....0000			32-0160190				Tower Square Capital Partners II-A, L.P.	..DE	NIA	C.M. Life Insurance Company	Ownership.....	..13.600	MMLIC	
.....0000			32-0160190				Tower Square Capital Partners II-A, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	..DE	NIA	MassMutual Holding LLC Massachusetts Mutual Life Insurance Company	Ownership.....	..5.700	MMLIC	
.....0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	..DE	NIA	Company Massachusetts Mutual Life Insurance Company	Ownership.....	..16.700	MMLIC	
.....0000			41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P.	..DE	NIA	Company	Ownership.....	..87.700	MMLIC	
.....0000			41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P.	..DE	NIA	Babson Capital Management LLC	Management.....		MMLIC	
.....0000			46-2104352				U.S. Trailer Holdings II LLC	..DE	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000			46-1500495				U.S. WIG Holding L.P.	..DE	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Victoria Falls CLO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Vinacasa CLO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	
.....0000							Whately CDO, Ltd.	..CYM	NIA	Babson Capital Management LLC	Influence.....		MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.0000							Winterset Capital Partners, L.P.	.CYM	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.75.800	MMLIC	
.0000							Winterset Capital Partners, L.P.	.CYM	.NIA	C.M. Life Insurance Company	Ownership	.2.400	MMLIC	
.0000							Winterset Capital Partners, L.P.	.CYM	.NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			20-4981369		0001371601		Wood Creek Multi Asset Fund, L.P.	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.100.000	MMLIC	
.0000			20-4981369		0001371601		Wood Creek Multi Asset Fund, L.P.	.DE	.NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			04-1590850				Wood Creek Venture Fund LLC	.MA	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.60.000	MMLIC	
.0000			45-4184261		0001547286		Baring All Country World ex US Equity	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000							Baring Emerging Market Corp Debt Fund	.JRL	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.59.800	MMLIC	
.0000							Baring Emerging Market Corp Debt Fund	.JRL	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			11-3789446				Baring Focused EAFE Equity Fund	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.14.200	MMLIC	
.0000			11-3789446				Baring Focused EAFE Equity Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			01-0850479		0001443715		Baring Focused International Equity Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			30-0607379		0001497049		Baring Global Dynamic Asset Allocation Fund	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.37.200	MMLIC	
.0000			30-0607379		0001497049		Baring Global Dynamic Asset Allocation Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			39-2059577		0001491482		Baring International Equity Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			26-4142796				Baring International Small Cap Equity Fund	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.100.000	MMLIC	
.0000			26-4142796				Baring International Small Cap Equity Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			46-1197222				Baring World Equity Fund	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			26-1896226				Multi-Employer Global Aggregate Diversified Portfolio	.DE	.NIA	Baring Asset Management Limited	Management		MMLIC	
.0000			90-0728785				11 Fan Pier Boulevard Member LLC	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.91.000	MMLIC	
.0000			90-0728785				11 Fan Pier Boulevard Member LLC	.DE	.NIA	C.M. Life Insurance Company	Ownership	.9.000	MMLIC	
.0000							12-18 West 55th Street Predevelopment, LLC			Massachusetts Mutual Life Insurance Company	Ownership			
.0000			20-2548283				12-18 West 55th Street Predevelopment, LLC	.DE	.NIA	Company	Ownership	.88.200	MMLIC	
.0000			20-2548283				12-18 West 55th Street Predevelopment, LLC	.DE	.NIA	Company	Ownership	.7.700	MMLIC	
.0000			45-5257904				21 West 86 LLC	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.95.000	MMLIC	
.0000			45-5257904				21 West 86 LLC	.DE	.NIA	C.M. Life Insurance Company	Ownership	.5.000	MMLIC	
.0000							50 Northern Avenue Member LLC	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.91.000	MMLIC	
.0000			80-0729557				50 Northern Avenue Member LLC	.DE	.NIA	C.M. Life Insurance Company	Ownership	.9.000	MMLIC	
.0000			45-2779931				AT Mid-Atlantic Office Portfolio LLC	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.90.000	MMLIC	
.0000			45-2779931				AT Mid-Atlantic Office Portfolio LLC	.DE	.NIA	C.M. Life Insurance Company	Ownership	.10.000	MMLIC	
.0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.35.800	MMLIC	
.0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	.DE	.NIA	C.M. Life Insurance Company	Ownership	.1.900	MMLIC	
.0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	.DE	.NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			24-1446970		0001362970		Babson Mezzanine Realty Investors II	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.73.500	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000.....			24-1446970		0001362970		Babson Mezzanine Realty Investors II	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Management.....		MMLIC	
.....0000.....			04-1590850				CHC/RFP VI Core LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC	
.....0000.....			06-1595820				Cornerstone Apartment Fund I, LLC	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC	Influence.....		MMLIC	
.....0000.....			20-5786329		0001386622		Cornerstone Apartment Venture III, LLC	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	
.....0000.....			56-2639862				Cornerstone Austin Industrial LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	65.000	MMLIC	
.....0000.....			56-2639862				Cornerstone Austin Park Central I LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	91.000	MMLIC	
.....0000.....			56-2639862				Cornerstone Austin Park Central I LP	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	9.000	MMLIC	
.....0000.....			27-1701733				Cornerstone Core Mortgage Fund I LP	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Management.....		MMLIC	
.....0000.....			27-1701622				Cornerstone Core Mortgage Venture I LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	50.000	MMLIC	
.....0000.....			27-1701622				Cornerstone Core Mortgage Venture I LP	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Management.....		MMLIC	
.....0000.....			56-2630592				Cornerstone Fort Pierce Development LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	83.900	MMLIC	
.....0000.....			56-2630592				Cornerstone Fort Pierce Development LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	6.100	MMLIC	
.....0000.....			20-8730751				Cornerstone Global REIT Corporation	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	92.300	MMLIC	
.....0000.....			20-8730751				Cornerstone Global REIT Corporation	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	7.600	MMLIC	
.....0000.....			20-5578165				Cornerstone Holding LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	15.000	MMLIC	
.....0000.....			26-1528817		0001423638		Cornerstone Hotel Income and Equity Fund II (PF) LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC	
.....0000.....			20-5567494				Cornerstone Non-REIT Holding LLC	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Management.....		MMLIC	
.....0000.....			27-5209432				Cornerstone Real Estate Fund VIII (PF) LP	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	33.900	MMLIC	
.....0000.....			27-0547156				Cornerstone Real Estate Fund VIII LP	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Management.....		MMLIC	
.....0000.....			26-1816861				CREA/Legacy Federal Way LLC	..DE.....	..NIA.....	Cornerstone Real Estate Advisers LLC Massachusetts Mutual Life Insurance Company	Influence.....		MMLIC	
.....0000.....			26-2399532				CREA/LYON West Gateway, LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC	
.....0000.....			26-2399532				CREA/LYON West Gateway, LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	54.000	MMLIC	
.....0000.....			26-2399532				CREA/LYON West Gateway, LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	6.000	MMLIC	
.....0000.....			27-2934589				CREA/Nexus Anaheim Corners Holdings LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	63.900	MMLIC	
.....0000.....			20-0348173				CREA/PPC Venture LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	93.400	MMLIC	
.....0000.....			20-0348173				CREA/PPC Venture LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	6.600	MMLIC	
.....0000.....			20-4087568				CREA/Windstar Dublin-Pleasanton LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	92.000	MMLIC	
.....0000.....			20-4087568				CREA/Windstar Dublin-Pleasanton LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	8.000	MMLIC	
.....0000.....			26-1611591	3956836			Fallon Cornerstone One MPD LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	62.400	MMLIC	
.....0000.....			26-1611591	3956836			Fallon Cornerstone One MPD LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	6.200	MMLIC	
.....0000.....			20-3347091				FP Development LLC	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	91.000	MMLIC	
.....0000.....			20-3347091				FP Development LLC	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	9.000	MMLIC	
.....0000.....			20-4834392				Flower Mound Warehouse	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	88.500	MMLIC	
.....0000.....			20-4834392				Flower Mound Warehouse	..DE.....	..NIA.....	C.M. Life Insurance Company	Ownership.....	11.500	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000.....			11-3677334				Gallery Place Equity LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..50.000	MMLIC	
.....0000.....			46-1586427				Gracechurch London Holdings LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..96.000	MMLIC	
.....0000.....			46-1586427				Gracechurch London Holdings LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..4.000	MMLIC	
.....0000.....			20-8298948				Hanover Preferred Facility LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..45.000	MMLIC	
.....0000.....			20-8298948				Hanover Preferred Facility LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..5.000	MMLIC	
.....0000.....			20-8298948				Hanover Preferred Facility LLC	..DE..	NIA.....	Cornerstone Real Estate Advisers LLC	Management.....		MMLIC	
.....0000.....							Infinity SCD Ltd	..CT..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..4.200	MMLIC	
.....0000.....			20-4819358				Johnston Groves LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..57.200	MMLIC	
.....0000.....			20-4570515				MassMutual Boston Capital Mezzanine Partners II LP	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..28.600	MMLIC	
.....0000.....			20-4570515				MassMutual Boston Capital Mezzanine Partners II LP	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..1.000	MMLIC	
.....0000.....			20-5984759				Metropolitan At Lorton	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..93.500	MMLIC	
.....0000.....			20-5984759				Metropolitan At Lorton	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..6.500	MMLIC	
.....0000.....			46-3317841				MM Greenhill Office LLC	..MA..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..81.000	MMLIC	
.....0000.....			46-3317841				MM Greenhill Office LLC	..MA..	NIA.....	C.M. Life Insurance Company	Ownership.....	..19.000	MMLIC	
.....0000.....			46-0808569				PO Parsippany Office Portfolio LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..95.000	MMLIC	
.....0000.....			46-0808569				PO Parsippany Office Portfolio LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..5.000	MMLIC	
.....0000.....			30-0713071				Riva Portland LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000.....			27-2977720				Sawgrass Village Shopping Center LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..84.200	MMLIC	
.....0000.....			27-2977720				Sawgrass Village Shopping Center LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..15.800	MMLIC	
.....0000.....			46-0606690				Turnpike Executive Park LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000.....			45-4606547				UK LIW Manager LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..1.000	MMLIC	
.....0000.....			45-4606547				UK LIW Member LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000.....			45-5401109				Washington Gateway Apartments Venture LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..95.000	MMLIC	
.....0000.....			45-5401109				Washington Gateway Apartments Venture LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..5.000	MMLIC	
.....0000.....			20-2970495				Waterford Development Associates	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..90.000	MMLIC	
.....0000.....			46-3122029				WeHo Domain LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..86.000	MMLIC	
.....0000.....			46-3122029				WeHo Domain LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..14.000	MMLIC	
.....0000.....			26-2384708				Wesley Chapel Theaters LLC	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..90.000	MMLIC	
.....0000.....			26-2384708				Wesley Chapel Theaters LLC	..DE..	NIA.....	C.M. Life Insurance Company	Ownership.....	..10.000	MMLIC	
.....0000.....			20-5481477				Ygnatio Valley Funding	..DE..	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..90.000	MMLIC	

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000			45-3168892			QO	MassMutual Barings Dynamic Allocation Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..50.900	..MMLIC	
.....0000			04-3212054		0000927972	QO	MassMutual Premier Balanced Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..3.900	..MMLIC	
.....0000			51-0529336		0000927972	QO	MassMutual Premier Capital Appreciation Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..7.100	..MMLIC	
.....0000			04-3277549		0000927972	QO	MassMutual Premier Core Bond Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.100	..MMLIC	
.....0000			04-3539084		0000927972	QO	MassMutual Premier Disciplined Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..0.800	..MMLIC	
.....0000			04-3520009		0000927972	QO	MassMutual Premier High Yield Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..18.700	..MMLIC	
.....0000			03-0532475		0000927972	QO	MassMutual Premier Inflation-Protected and Income Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..9.500	..MMLIC	
.....0000			04-3212044		0000927972	QO	MassMutual Premier International Equity Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..3.800	..MMLIC	
.....0000			26-1345534		0000927972	QO	MassMutual Premier International Bond Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..95.900	..MMLIC	
.....0000			04-3224705		0000927972	QO	MassMutual Premier Small/Mid Cap Opportunities Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..10.000	..MMLIC	
.....0000			26-3229251		0000927972	QO	MassMutual Premier Strategic Emerging Markets Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..56.000	..MMLIC	
.....0000			04-3277550		0000927972	QO	MassMutual Premier Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..5.700	..MMLIC	
.....0000			04-3556992		0000916053	QO	MassMutual Select Blue Chip Growth Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.700	..MMLIC	
.....0000			01-0821120		0000916053	QO	MassMutual Select Diversified Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..0.600	..MMLIC	
.....0000			04-3512590		0000916053	QO	MassMutual Select Focused Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.900	..MMLIC	
.....0000			04-3584138		0000916053	QO	MassMutual Select Fundamental Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..1.300	..MMLIC	
.....0000			04-3512589		0000916053	QO	MassMutual Select Growth Opportunities Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..1.100	..MMLIC	
.....0000			04-3513019		0000916053	QO	MassMutual Select Large Cap Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.000	..MMLIC	
.....0000			04-3512596		0000916053	QO	MassMutual Select Mid Cap Growth Equity II Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..1.800	..MMLIC	
.....0000			42-1710935		0000916053	QO	MassMutual Select Mid-Cap Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..3.800	..MMLIC	
.....0000			04-3557000		0000916053	QO	MassMutual Select Overseas Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..4.000	..MMLIC	
.....0000			04-3464205		0000916053	QO	MassMutual Select Small Cap Growth Equity Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..2.000	..MMLIC	
.....0000			04-3584140		0000916053	QO	MassMutual Select Small Company Value Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..1.200	..MMLIC	
.....0000			45-5349772		0000916053	QO	MassMutual Select S&P Mid Cap Index Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..18.300	..MMLIC	
.....0000			45-5366542		0000916053	QO	MassMutual Select Russell 2000 Small Cap Index Fund	..MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..8.400	..MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group Code	Group Name	NAIC Company Code	Federal ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	*
.....0000.....			45-5357167		0000916053	QQ	MassMutual Select MSCI EAFE International Index Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..4.100.....	MMLIC	
.....0000.....			26-2997893		0000067160		MML China Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..99.200.....	MMLIC	
.....0000.....			45-3612851		0000067160		MML Focused Equity Fund Class I	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..3.400.....	MMLIC	
.....0000.....			45-3612938		0000067160		MML Fundamental Growth Fund Class I	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..11.300.....	MMLIC	
.....0000.....			27-2959469		0000067160		MML Fundamental Value Fund Class I	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..6.000.....	MMLIC	
.....0000.....			27-1933828		0000916053		MassMutual RetireSMART 2015 Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..58.000.....	MMLIC	
.....0000.....			27-1933389		0000916053		MassMutual RetireSMART 2035 Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..14.700.....	MMLIC	
.....0000.....			27-1932769		0000916053		MassMutual RetireSMART 2045 Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..25.900.....	MMLIC	
.....0000.....			03-0532464		0000916053		MassMutual RetireSMART In Retirement Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..97.800.....	MMLIC	
.....0000.....							HarbourView CLO 2006-1 Limited	..CYM.....	..NIA.....	OppenheimerFunds, Inc.	Influence.....		MMLIC	
.....0000.....			26-1143312				OFI Institutional Commodities Strategy II	..DE.....	..NIA.....	OppenheimerFunds, Inc.	Ownership.....	..100.000.....	MMLIC	
.....0000.....			46-1232921		0001560050		Oppenheimer Diversified Alternatives Fund	..DE.....	..NIA.....	OppenheimerFunds, Inc.	Ownership.....	..55.200.....	MMLIC	
.....0000.....			13-3054122		0000319767		Oppenheimer Capital Appreciation Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC	
.....0000.....			84-1073463		0001116894		Oppenheimer Main Street Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC	
.....0000.....			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	..DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..0.100.....	MMLIC	
.....0000.....			22-3849391		0001163166		Oppenheimer Real Estate Fund	..MA.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC	
.....0000.....			13-3949688				Rye Select Broad Market Prime	..DE.....	..NIA.....	Tremont Group Holdings, Inc.	Ownership.....	..100.000.....	MMLIC	

Asterisk	Explanation
1	Massachusetts Mutual Life Insurance Company owns 3.38% of the affiliated debt of Jefferies Finance LLC
2	Babson Loan Strategies owns 100% of the debt
3	Debt investors own 24% and include Connecticut Valley Structured Credit CDO III, Ltd.I, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2006-II, Babson CLO Ltd. 2007-I, and Babson Mid-Market CLO Ltd. 2007-II
4	Partnership investors own 100% and include Massachusetts Mutual Life Insurance Company, C.M. Life Insurance Company, MassMutual Capital Partners LLC, Babson Loan Strategies Fund, L.P. and Winterset Capital Partners, L.P.
5	Partnership investors own 99% and include Babson Credit Strategies Fund, L.P. and Babson Credit Strategies.
6	Fugu Credit Plc owns 47% of the Fugu CLO B.V. assets
7	Debt investors own 9% and include Connecticut Valley Structured Credit CDO III, Ltd., Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2006-II, Babson CLO Ltd. 2007-I, and Mid-Market CLO 2007-II
8	Debt investors own 8% and include Connecticut Valley Structured Credit CDO III, Ltd.I and Babson Capital Loan Strategies Fund, L.P.
9	Debt investors own 22% and include Connecticut Valley Structured Credit CDO III, Ltd.I, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2006-II, Babson CLO Ltd. 2007-I, and Babson Mid-Market CLO Ltd. 2007-II
10	Debt investors own 8% and include Sapphire Valley, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2007-I, and Babson Mid-Market CLO Ltd. 2007-II
11	Debt investors own 11% and include Connecticut Valley CLO Fund IV, Ltd. And Babson Capital Loan Strategies Fund, L.P.
12	Debt investors own less than 40% and include Connecticut Valley Structured Credit CDO III, Ltd. and Connecticut Valley CLO Fund IV, Ltd.
13	Debt investors own less than 47% and include only Babson Capital Loan Strategies Fund, L.P.
14	Debt investors own 17% and include Connecticut Valley Structured Credit CDO IV, Ltd., Babson CLO Ltd. 2006-II, Babson CLO Ltd. 2007-I, Babson Capital Loan Strategies Fund, L.P., and Sapphire Valley CDO I, Ltd.

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

The following supplemental reports are required to be filed as part of your statement filing. However, in the event that your company does not transact the type of business for which the special report must be filed, your response of NO to the specific interrogatory will be accepted in lieu of filing a "NONE" report and a bar code will be printed below. If the supplement is required of your company but is not being filed for whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.

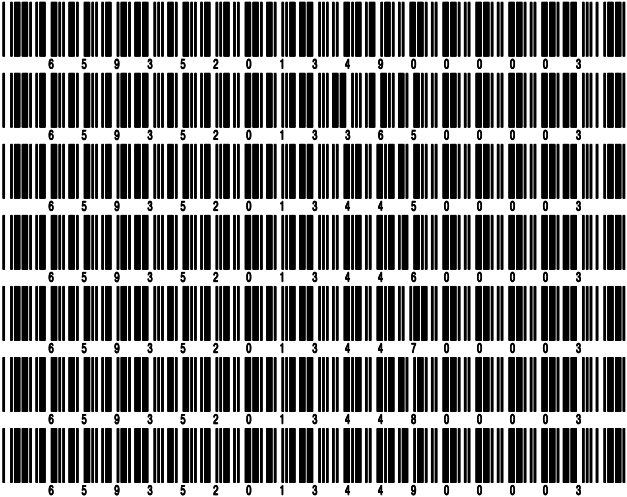
	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3. Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
5. Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC?	NO
6. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
7. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC?	NO

Explanation:

- Not required.
- This line of business is not written by the company.
- Not required.
- Not required.
- Not required.
- Not required.
- Not required.

Bar Code:

- Trusteed Surplus Statement [Document Identifier 490]
- Medicare Part D Coverage Supplement [Document Identifier 365]
- Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]
- Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]



STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Assets Line 25

		Current Statement Date			4 December 31 Prior Year Net Admitted Assets
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	
2504.	Real estate notes receivable	26,455,675		26,455,675	31,582,118
2505.	Pension plan asset	726,833,338	726,833,338		1,803,859
2506.	Cash advances to agents	88,673,712	88,673,712		221,487
2507.	Commissions and expenses on long-term lease	28,719,800	28,719,800		
2508.	Intangible assets	2,305,556	2,305,556		
2509.	Bills receivable	229,620	229,620		
2597.	Summary of remaining write-ins for Line 25 from overflow page	873,217,701	846,762,026	26,455,675	33,607,464

Additional Write-ins for Liabilities Line 25

		1 Current Statement Date	2 December 31 Prior Year
2504.	Funds awaiting escheat and other miscellaneous	116,293,069	39,550,187
2505.	Deferred liability	5,720,405	5,720,405
2597.	Summary of remaining write-ins for Line 25 from overflow page	122,013,474	45,270,592

Additional Write-ins for Summary of Operations Line 27

		1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
2704.	Change in liability for employee/agent benefit plans	29,390,842	20,333,259	22,929,977
2797.	Summary of remaining write-ins for Line 27 from overflow page	29,390,842	20,333,259	22,929,977

SCHEDULE A - VERIFICATION

Real Estate

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	1,133,400,065	1,191,973,571
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	1,247,062	4,074,770
2.2 Additional investment made after acquisition	54,843,134	73,408,392
3. Current year change in encumbrances	15,287,336	28,383,236
4. Total gain (loss) on disposals	45,562,814	21,062,761
5. Deduct amounts received on disposals	70,836,080	87,765,766
6. Total foreign exchange change in book/adjusted carrying value		
7. Deduct current year's other than temporary impairment recognized		
8. Deduct current year's depreciation	72,154,229	97,736,899
9. Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)	1,107,350,102	1,133,400,065
10. Deduct total nonadmitted amounts		
11. Statement value at end of current period (Line 9 minus Line 10)	1,107,350,102	1,133,400,065

SCHEDULE B - VERIFICATION

Mortgage Loans

	1	2
	Year to Date	Prior Year Ended December 31
1. Book value/recorded investment excluding accrued interest, December 31 of prior year	13,970,677,311	12,443,246,897
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	3,581,245,936	3,527,074,095
2.2 Additional investment made after acquisition	85,985,545	55,360,103
3. Capitalized deferred interest and other	(8,926)	256,538
4. Accrual of discount	3,674,487	6,487,067
5. Unrealized valuation increase (decrease)		
6. Total gain (loss) on disposals	2,965,756	36,357,472
7. Deduct amounts received on disposals	1,471,158,484	2,055,444,553
8. Deduct amortization of premium and mortgage interest points and commitment fees	12,336,930	7,142,991
9. Total foreign exchange change in book value/recorded investment excluding accrued interest	(9,545,081)	(21,601,729)
10. Deduct current year's other than temporary impairment recognized	26,952,204	13,915,588
11. Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	16,124,547,410	13,970,677,311
12. Total valuation allowance	(4,549,145)	(13,578,539)
13. Subtotal (Line 11 plus Line 12)	16,119,998,265	13,957,098,772
14. Deduct total nonadmitted amounts		
15. Statement value at end of current period (Line 13 minus Line 14)	16,119,998,265	13,957,098,772

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	6,633,670,727	5,978,692,000
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	444,361,865	254,156,190
2.2 Additional investment made after acquisition	1,111,269,212	1,260,856,875
3. Capitalized deferred interest and other		
4. Accrual of discount		
5. Unrealized valuation increase (decrease)	387,640,465	663,665,915
6. Total gain (loss) on disposals		58,192,686
7. Deduct amounts received on disposals	1,340,751,567	1,573,455,281
8. Deduct amortization of premium and depreciation	(238,387)	(32,812)
9. Total foreign exchange change in book/adjusted carrying value	1,645,897	(3,843,619)
10. Deduct current year's other than temporary impairment recognized	91,861	4,626,852
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	7,237,983,126	6,633,670,727
12. Deduct total nonadmitted amounts	95,552,683	95,666,957
13. Statement value at end of current period (Line 11 minus Line 12)	7,142,430,443	6,538,003,770

SCHEDULE D - VERIFICATION

Bonds and Stocks

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value of bonds and stocks, December 31 of prior year	63,835,309,247	59,345,453,712
2. Cost of bonds and stocks acquired	24,571,986,220	20,539,749,733
3. Accrual of discount	360,490,649	428,830,756
4. Unrealized valuation increase (decrease)	133,646,592	965,618,703
5. Total gain (loss) on disposals	25,894,638	344,158,654
6. Deduct consideration for bonds and stocks disposed of	15,031,735,203	17,619,966,457
7. Deduct amortization of premium	161,848,074	46,590,500
8. Total foreign exchange change in book/adjusted carrying value	9,613,813	29,774,872
9. Deduct current year's other than temporary impairment recognized	30,163,403	151,720,226
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	73,713,194,479	63,835,309,247
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	73,713,194,479	63,835,309,247

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE D - PART 1B

Showing the Acquisitions, Dispositions and Non-Trading Activity
During the Current Quarter for all Bonds and Preferred Stock by Rating Class

	1 Book/Adjusted Carrying Value Beginning of Current Quarter	2 Acquisitions During Current Quarter	3 Dispositions During Current Quarter	4 Non-Trading Activity During Current Quarter	5 Book/Adjusted Carrying Value End of First Quarter	6 Book/Adjusted Carrying Value End of Second Quarter	7 Book/Adjusted Carrying Value End of Third Quarter	8 Book/Adjusted Carrying Value December 31 Prior Year
BONDS								
1. Class 1 (a)	39,939,844,349	3,786,801,860	4,800,626,409	(213,034,609)	40,276,672,926	39,939,844,349	38,712,985,191	34,501,258,047
2. Class 2 (a)	23,919,478,850	11,874,754,208	11,135,847,455	195,071,882	23,770,218,302	23,919,478,850	24,853,457,485	20,810,590,002
3. Class 3 (a)	1,808,094,702	1,470,752,765	1,425,263,487	63,229,514	1,898,325,313	1,808,094,702	1,916,813,494	1,754,028,848
4. Class 4 (a)	1,289,540,288	441,385,229	208,901,150	55,904,708	1,206,188,157	1,289,540,288	1,577,929,075	1,109,556,147
5. Class 5 (a)	379,651,321	42,543,763	89,109,471	27,574,110	679,444,793	379,651,321	360,659,723	678,577,549
6. Class 6 (a)	351,241,031	17,920,186	42,253,306	21,626,118	108,907,537	351,241,031	348,534,029	123,834,945
7. Total Bonds	67,687,850,541	17,634,158,011	17,702,001,278	150,371,723	67,939,757,028	67,687,850,541	67,770,378,997	58,977,845,538
PREFERRED STOCK								
8. Class 1	209,341,089				209,341,089	209,341,089	209,341,089	209,341,089
9. Class 2	146,609,488		1,651,674	10,434,074	12,981,488	146,609,488	155,391,887	
10. Class 3	123,000,000				123,000,000	123,000,000	123,000,000	123,000,000
11. Class 4								
12. Class 5	468,277			841,125	468,277	468,277	1,309,402	1,757,726
13. Class 6	1,547,306			(1,113,217)	1,547,306	1,547,306	434,089	1,547,306
14. Total Preferred Stock	480,966,160		1,651,674	10,161,982	347,338,160	480,966,160	489,476,467	335,646,121
15. Total Bonds and Preferred Stock	68,168,816,700	17,634,158,011	17,703,652,952	160,533,704	68,287,095,188	68,168,816,700	68,259,855,464	59,313,491,659

(a) Book/Adjusted Carrying Value column for the end of the current reporting period includes the following amount of non-rated short-term and cash equivalent bonds by NAIC designation: NAIC 1 \$27,000,014 ; NAIC 2 \$1,738,637,396 ; NAIC 3 \$101,427,800 ; NAIC 4 \$; NAIC 5 \$; NAIC 6 \$

SCHEDULE DA - PART 1

Short-Term Investments

	1	2	3	4	5
	Book/Adjusted Carrying Value	Par Value	Actual Cost	Interest Collected Year-to-Date	Paid for Accrued Interest Year-to-Date
9199999 Totals	562,461,280	xxx	561,703,309		

SCHEDULE DA - VERIFICATION

Short-Term Investments

	1	2
	Year To Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	319,575,782	344,635,447
2. Cost of short-term investments acquired	1,450,974,142	1,644,052,582
3. Accrual of discount	1,909,583	2,091,188
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	37,128	11,871
6. Deduct consideration received on disposals	1,210,035,355	1,671,215,306
7. Deduct amortization of premium		
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized		
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	562,461,280	319,575,782
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	562,461,280	319,575,782

SCHEDULE DB - PART A - VERIFICATION

Options, Caps, Floors, Collars, Swaps and Forwards

1.	Book/Adjusted Carrying Value, December 31, prior year (Line 9, prior year)	2,655,980,465
2.	Cost Paid/(Consideration Received) on additions	140,088,058
3.	Unrealized Valuation increase/(decrease)	(784,231,366)
4.	Total gain (loss) on termination recognized	(84,347,360)
5.	Considerations received/(paid) on terminations	89,313,467
6.	Amortization	(143,957)
7.	Adjustment to the Book/Adjusted Carrying Value of hedged item	
8.	Total foreign exchange change in Book/Adjusted Carrying Value	
9.	Book/Adjusted Carrying Value at End of Current Period (Lines 1+2+3+4-5+6+7+8)	1,838,032,372
10.	Deduct nonadmitted assets	
11.	Statement value at end of current period (Line 9 minus Line 10)	1,838,032,372

SCHEDULE DB - PART B - VERIFICATION

Futures Contracts

1.	Book/Adjusted carrying value, December 31 of prior year (Line 6, prior year)	
2.	Cumulative cash change (Section 1, Broker Name/Net Cash Deposits Footnote - Cumulative Cash Change column)	
3.1	Add:	
	Change in variation margin on open contracts - Highly Effective Hedges	
3.11	Section 1, Column 15, current year to date minus	
3.12	Section 1, Column 15, prior year	(74,386,700)74,386,700
	Change in variation margin on open contracts - All Other	
3.13	Section 1, Column 18, current year to date minus	20,870,682
3.14	Section 1, Column 18, prior year	20,870,68295,257,382
3.2	Add:	
	Change in adjustment to basis of hedged item	
3.21	Section 1, Column 17, current year to date minus	
3.22	Section 1, Column 17, prior year	
	Change in amount recognized	
3.23	Section 1, Column 19, current year to date minus	20,870,682
3.24	Section 1, Column 19, prior year	(74,386,700)95,257,38295,257,382
3.3	Subtotal (Line 3.1 minus Line 3.2)	
4.1	Cumulative variation margin on terminated contracts during the year	(447,331,216)
4.2	Less:	
	4.21 Amount used to adjust basis of hedged item	
	4.22 Amount recognized	(447,331,216)(447,331,216)
4.3	Subtotal (Line 4.1 minus Line 4.2)	
5.	Dispositions gains (losses) on contracts terminated in prior year:	
	5.1 Total gain (loss) recognized for terminations in prior year	
	5.2 Total gain (loss) adjusted into the hedged item(s) for terminations in prior year	
6.	Book/Adjusted carrying value at end of current period (Lines 1+2+3.3-4.3-5.1-5.2)	
7.	Deduct total nonadmitted amounts	
8.	Statement value at end of current period (Line 6 minus Line 7)	

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE DB - PART C - SECTION 1

Replication (Synthetic Asset) Transactions Open as of Current Statement Date

Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions							
1	2	3	4	5	6	7	8	Derivative Instrument(s) Open			Cash Instrument(s) Held				
								9	10	11	12	13	14	15	16
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
091797 C* 9	Black & Decker Corporation – Senior Note	1	5,000,000	5,507,870	6,109,438	11/07/2006	12/20/2013	Swap/CDS Long	7,870	7,870	942749-AA-9	Watts Water Technologies Inc. Senior Note	2	5,500,000	6,101,568
925524 B@ 8	C B S Corp. – Note	2	5,000,000	5,508,203	6,109,771	11/07/2006	12/20/2013	Swap/CDS Long	8,203	8,203	942749-AA-9	Watts Water Technologies Inc. Senior Note	2	5,500,000	6,101,568
319963 C@1	First Data Corporation – Senior Note	5	5,000,000	5,496,751	6,098,319	11/07/2006	12/20/2013	Swap/CDS Long	(3,249)	(3,249)	942749-AA-9	Watts Water Technologies Inc. Senior Note	2	5,500,000	6,101,568
205363 C@ 1	Computer Sciences Corporation – Note	2	5,000,000	5,506,230	6,107,798	11/07/2006	12/20/2013	Swap/CDS Long	6,230	6,230	942749-AA-9	Watts Water Technologies Inc. Senior Note	2	5,500,000	6,101,568
755111 E#4	Raytheon Company	1	8,350,000	1,628,638	1,746,943	03/22/2010	06/20/2015	Swap/CDS Long	128,638	128,638	K3752#-AB-4	Copenhagen Airports A/S/Senior Note Series B	2	1,500,000	1,618,305
755111 E#4	Raytheon Company	1		8,450,000	8,943,734	03/22/2010	06/20/2015	Swap/CDS Long			N4345#-AC-1	Iberdrola International B.V./Gtd Senior Note Series C	2	8,450,000	8,943,734
666807 C#7	Northrup Grumman Corporation	2	8,350,000	2,128,657	2,321,861	03/22/2010	06/20/2015	Swap/CDS Long	128,657	128,657	980745-B*-3	Woodward Governor Company/Senior Note Series C	2	2,000,000	2,193,204
666807 C#7	Northrup Grumman Corporation	2		7,600,000	8,518,551	03/22/2010	06/20/2015	Swap/CDS Long			Q3629#-AD-5	ETSA Utilities Finance Pty Ltd./Gtd Senior Secured Note Ser B	1	7,600,000	8,518,551
666807 D*0	Northrup Grumman Corporation	2	8,500,000	2,130,968	2,324,172	03/22/2010	06/20/2015	Swap/CDS Long	130,968	130,968	980745-B*-3	Woodward Governor Company/Senior Note Series C	2	2,000,000	2,193,204
666807 D*0	Northrup Grumman Corporation	2		7,600,000	8,518,551	03/22/2010	06/20/2015	Swap/CDS Long			Q3629#-AD-5	ETSA Utilities Finance Pty Ltd./Gtd Senior Secured Note Ser B	1	7,600,000	8,518,551
755111 E@6	Raytheon Company	1	8,500,000	2,133,610	2,335,170	03/22/2010	06/20/2015	Swap/CDS Long	133,610	133,610	11283#-AD-3	Brookfield Power New York Financing LP/Note Series 4	1	2,000,000	2,201,560
755111 E@6	Raytheon Company	1		7,475,000	8,457,686	03/22/2010	06/20/2015	Swap/CDS Long			G9298#-AN-1	Urenco Ltd./Gtd Senior Note Series B	2	7,475,000	8,457,686
009158 G*1	Air Products	1	8,500,000	1,103,479	1,271,289	03/22/2010	06/20/2015	Swap/CDS Long	103,479	103,479	10222#-AA-9	Bowater Saluda Note Holdings LLC/Senior Secured Note	1	1,000,000	1,167,810
009158 G*1	Air Products	1		7,475,000	8,457,686	03/22/2010	06/20/2015	Swap/CDS Long			G9298#-AN-1	Urenco Ltd./Gtd Senior Note Series B	1	7,475,000	8,457,686
009158 G*1	Air Products	1		1,600,000	1,793,379	03/22/2010	06/20/2015	Swap/CDS Long			Q3629#-AD-5	ETSA Utilities Finance Pty Ltd./Gtd Senior Secured Note Ser B	1	1,600,000	1,793,379
755111 E*8	Raytheon Company	1	8,350,000	1,631,252	1,749,557	03/22/2010	06/20/2015	Swap/CDS Long	131,252	131,252	K3752#-AB-4	Copenhagen Airports A/S/Senior Note Series B	2	1,500,000	1,618,305
755111 E*8	Raytheon Company	1		8,450,000	8,943,734	03/22/2010	06/20/2015	Swap/CDS Long			N4345#-AC-1	Iberdrola International B.V./Gtd Senior Note Series C	2	8,450,000	8,943,734
418056 B@5	Hasbro, Inc.	2	4,300,000	4,952,889	5,582,706	03/22/2010	06/20/2015	Swap/CDS Long	52,889	52,889	89838#-AB-3	Dartmouth College/Senior Secured Note	1	4,900,000	5,529,817
847430 A*9	Special Values Opportunities Fund	1	1,010,101	22,983,296	25,040,881	03/29/2011	07/13/2014	Swap/Total Return	1,333	1,333	92976V-AE-8	Wachovia Bank Commercial Mortgage Trust/Series 2006-C25 Class A4 REID	1	22,981,963	25,039,548
847430 A*9	Special Values Opportunities Fund	1		4,500,247	4,963,109	03/29/2011	07/13/2014	Swap/Total Return			92977R-AD-8	Wachovia Bank Commercial Mortgage Trust/Series 2006-C26 Class A3 REID	1	4,500,247	4,963,109
847430 A*9	Special Values Opportunities Fund	1	25,000,000	22,959,305	25,016,890	03/29/2011	07/13/2014	Swap/Total Return	(22,658)	(22,658)	92976V-AE-8	Wachovia Bank Commercial Mortgage Trust/Series 2006-C25 Class A4 REID	1	22,981,963	25,039,548
847430 A*9	Special Values Opportunities Fund	1		4,500,247	4,963,109	03/29/2011	07/13/2014	Swap/Total Return			92977R-AD-8	Wachovia Bank Commercial Mortgage Trust/Series 2006-C26 Class A3 REID	1	4,500,247	4,963,109
57629* AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	2	50,000,000	16,641,887	5,860,169	10/01/2012	10/01/2042	Swap/Vanilla		(10,327,331)	Q3510X-AO-6	Energy Developments Ltd. Tranche C Term Loan	3	16,641,887	16,187,500
57629* AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	2		10,739,438	9,845,979	10/01/2012	10/01/2042	Swap/Vanilla			Y3751M-AO-9	Aricent Technologies Tranche A-1	3	10,739,438	9,845,979
57629* AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	2		38,698,442	43,552,658	10/01/2012	10/01/2042	Swap/Vanilla			B0206S-AO-8	NRC US Holding Company LLC Term Loan (03/12)	1	38,698,442	43,552,658
57629* AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	2		13,184,645	13,166,318	10/01/2012	10/01/2042	Swap/Vanilla			12543K-AA-6	CHS/Community Health Systems, Extended Term Loan	3	13,184,645	13,166,318
57629* AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	3	50,000,000	39,000,000	28,159,712	10/01/2012	10/01/2042	Swap/Vanilla		(10,269,874)	223611-AA*-5	Cowboys Stadium LP Senior Secured Note	2	39,000,000	38,429,586
57629* AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	3		12,800,000	12,689,203	10/01/2012	10/01/2042	Swap/Vanilla			955306-AA-4	West Pharmaceutical Services Senior Note Series B	2	12,800,000	12,689,203
57629* AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	3		4,000,000	3,790,608	10/01/2012	10/01/2042	Swap/Vanilla			27965#-AD-4	Edens & Avant Investments LP Gtd Senior Note Series A Tr D	2	4,000,000	3,790,608

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE DB - PART C - SECTION 1

Replication (Synthetic Asset) Transactions Open as of Current Statement Date

Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions							
1	2	3	4	5	6	7	8	Derivative Instrument(s) Open			Cash Instrument(s) Held				
		NAIC Designation or Other		Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14 NAIC Designation or Other	15	16
Number	Description	Description	Notional Amount					Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	Description	Book/Adjusted Carrying Value	Fair Value
57629* AC 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	264,000,000	242,330,003	184,144,062	11/29/2012	11/29/2042	Swap/Vanilla		(55,615,938)	25812H-AA-5	Doral CLO Ltd Series 2010-1A Class A	1	242,330,003	239,760,000
57629* AC 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,853,469	15,664,000	11/29/2012	11/29/2042	Swap/Vanilla			87244D-AC-8	Wind River CLO Ltd Series 2013-1A Class A2	1	15,853,469	15,664,000
57629* AC 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,253,170	16,127,759	11/29/2012	11/29/2042	Swap/Vanilla			87244D-AA-2	Wind River CLO Ltd Series 2013-1A Class A1	1	16,253,170	16,127,759
57629* AC 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,692,953	3,628,465	11/29/2012	11/29/2042	Swap/Vanilla			09625Y-AG-6	Bluemountain CLO Ltd Series 2012-1A Class C	1	3,692,953	3,628,465
57629* AE 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	106,056,623	94,420,809	12/27/2012	12/27/2042	Swap/Vanilla		(17,552,941)	803066-AA-7	Sapphire Valley CDO Ltd Series 2006-1A Class A	1	106,056,623	111,973,750
57629* AE 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		71,535,067	72,146,389	12/27/2012	12/27/2042	Swap/Vanilla			16209N-AA-3	Chatham Light CLO Limited Series 2005-2A Class A1	1	71,535,067	72,146,389
57629* AE 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,376,968	5,791,875	12/27/2012	12/27/2042	Swap/Vanilla			14309D-AC-4	Carlyle High Yield Partners Series 2007-10A Class A2B	1	6,376,968	5,791,875
57629* AD 3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	106,056,623	94,420,809	12/27/2012	12/27/2042	Swap/Vanilla		(17,552,941)	803066-AA-7	Sapphire Valley CDO Ltd Series 2006-1A Class A	1	106,056,623	111,973,750
57629* AF 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	80,206,943	62,678,013	12/28/2012	12/28/2042	Swap/Vanilla		(17,240,987)	49638T-AC-7	Kingsland LTD Series 2006-3A Class A1	1	80,206,943	79,919,000
57629* AF 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,503,043	16,459,464	12/28/2012	12/28/2042	Swap/Vanilla			74352D-AA-6	Prospect Park CDo Ltd Series 2006-1A Class A	1	16,503,043	16,459,464
57629* AF 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,452,629	11,409,600	12/28/2012	12/28/2042	Swap/Vanilla			38136B-AG-7	Goldentree Loan Opportunities Series 2007-3A Class A1BJ	1	11,452,629	11,409,600
57629* AH 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	55,008,593	38,111,164	12/28/2012	12/28/2042	Swap/Vanilla		(17,240,987)	131244-AC-9	Callidus Debt Partners Fnd Ltd Series 4A Class A1B	1	55,008,593	55,352,151
57629* AH 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		56,410,419	57,810,142	12/28/2012	12/28/2042	Swap/Vanilla			363184-AB-8	Galaxy CLO Ltd Series 2006-7A Class A2	1	56,410,419	57,810,142
57629* AH 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,700,000	16,599,800	12/28/2012	12/28/2042	Swap/Vanilla			38137D-AC-1	Goldentree Loan Opp VII Ltd Series 2013-7A Class B	1	16,700,000	16,599,800
57629* AH 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		44,209,506	44,017,600	12/28/2012	12/28/2042	Swap/Vanilla			74982B-AA-0	Race Point CLO Series 2011-5A Class A	1	44,209,506	44,017,600
57629* AG 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	38,274,774	21,271,824	12/28/2012	12/28/2042	Swap/Vanilla		(17,240,987)	44983K-AB-0	1 N G Investment Management Series 2006-3A Class A2A	1	38,274,774	38,512,811
57629* AG 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		55,819,025	56,516,598	12/28/2012	12/28/2042	Swap/Vanilla			67085X-AB-0	Oha Park Avenue CLO Ltd Series 2007-1A Class A1B	1	55,819,025	56,516,598
57629* AG 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,000,000	8,915,400	12/28/2012	12/28/2042	Swap/Vanilla			09626Y-AC-4	Bluemountain CLO Ltd Series 2013-2A Class B1	1	9,000,000	8,915,400
57629* AJ 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	39,220,779	30,487,325	12/28/2012	12/28/2042	Swap/Vanilla		(8,620,493)	46186G-AA-1	Inwood Park CDO Ltd Series 2006-1A Clas A1A	1	39,220,779	39,107,818
57629* AJ 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,200,000	14,164,500	12/28/2012	12/28/2042	Swap/Vanilla			67089B-AN-8	OHA Intrepid Lev Loan Fund Series 2011-1AR Class CR	1	14,200,000	14,164,500
57629* AK 7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	41,964,323	33,843,762	12/28/2012	12/28/2042	Swap/Vanilla		(8,620,493)	131248-AC-0	Callidus Debt Partners CDO Fnd Series 6A Class A1T	1	41,964,323	42,464,255
57629* AK 7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,656,063	8,100,000	12/28/2012	12/28/2042	Swap/Vanilla			67089B-AB-4	OHA Intrepid Lev Loan Fund Series 2011-1A Class B	1	7,656,063	8,100,000
57629* AK 7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,641,045	15,280,500	12/28/2012	12/28/2042	Swap/Vanilla			15135D-AC-1	Cent CDO Ltd Series 2007-14A Class B	1	13,641,045	15,280,500
57629* AL 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	27,419,797	19,155,765	12/28/2012	12/28/2042	Swap/Vanilla		(8,620,493)	26243Y-AA-5	Eaton Vance CDO Ltd Series 2006-8A Class A	1	27,419,797	27,776,258
57629* AL 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,441,475	11,172,000	12/28/2012	12/28/2042	Swap/Vanilla			14310D-AG-2	Carlyle Global Market Strategy Series 2013-2A Class C1	1	11,441,475	11,172,000
57629* AL 5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		32,831,693	34,184,674	12/28/2012	12/28/2042	Swap/Vanilla			BCCOXF-V8-9	St Pauls CLO I B.V. Series 2007-1X Class A	1	32,831,693	34,184,674
57629* AM 3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	29,573,860	21,135,247	12/28/2012	12/28/2042	Swap/Vanilla		(8,620,493)	27828T-AA-5	Eaton Vance CDO Ltd Series 2006-8A Class A	1	29,573,860	29,755,740
57629* AM 3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		30,357,736	30,731,000	12/28/2012	12/28/2042	Swap/Vanilla			38136G-AB-7	Goldentree Loan Opportunities Series 2007-4A Class A1B	1	30,357,736	30,731,000
57629* AN 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	29,769,443	22,083,974	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	86613N-AB-3	Summit Lake CLO Ltd Series 2005-1A Class A1LB	1	29,769,443	31,204,800
57629* AN 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,080,932	17,415,030	12/31/2012	12/31/2042	Swap/Vanilla			75157E-AA-0	Rampart CLO Ltd Series 2007-1A Class A	1	17,080,932	17,415,030
57629* AN 1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,907,917	6,400,000	12/31/2012	12/31/2042	Swap/Vanilla			03763P-AB-1	Apidos CDO Series 2011-8A Class A2	1	5,907,917	6,400,000

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE DB - PART C - SECTION 1

Replication (Synthetic Asset) Transactions Open as of Current Statement Date

Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions							
1	2	3	4	5	6	7	8	Derivative Instrument(s) Open			Cash Instrument(s) Held				
		NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14 NAIC Designation or Other Description	15	16
Number	Description	Description	Amount	Value	Value	Date	Date	Description	Carrying Value	Fair Value	CUSIP	Description	Description	Value	Fair Value
57629* AP 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	27,953,554	19,711,674	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	74981M-AC-3	Race Point CLO Series 2007-4A Class A1B	1	27,953,554	28,832,500
57629* AP 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,993,693	18,098,225	12/31/2012	12/31/2042	Swap/Vanilla			43164Q-AA-2	Hillmark Funding Series 2006-1A Class A1	1	17,993,693	18,098,225
57629* AP 6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,470,253	5,488,980	12/31/2012	12/31/2042	Swap/Vanilla			13124T-AC-4	Callidus Debt Partners Fnd Ltd Series 5A Class A1B	1	5,470,253	5,488,980
57629* AQ 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	25,841,068	17,027,973	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	00175E-AA-6	American Money Mgmt Corp. Series 2006-7A Class A	1	25,841,068	26,148,799
57629* AQ 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,931,586	20,726,000	12/31/2012	12/31/2042	Swap/Vanilla			803066-AC-3	Sapphire Valley CDO Ltd Series 2006-1A Class B	1	22,931,586	20,726,000
57629* AQ 4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,671,627	9,970,500	12/31/2012	12/31/2042	Swap/Vanilla			05874D-AC-7	Ballyrock Limited Series 2006-1A Class B	1	8,671,627	9,970,500
57629* AR 2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	27,943,284	18,735,885	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	67073V-AB-8	Nylim Flatiron CLO Ltd Series 2006-1A Class A2A	1	27,943,284	27,856,711
57629* AR 2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		21,834,545	22,109,353	12/31/2012	12/31/2042	Swap/Vanilla			639107-AA-9	Nautique Funding Ltd Series 2006-1A Class A1A	1	21,834,545	22,109,353
57629* AR 2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,474,607	5,578,860	12/31/2012	12/31/2042	Swap/Vanilla			67706H-AG-3	OHA Loan Funding Ltd Series 2013-1A Class C	1	5,474,607	5,578,860
57629* AS 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	15,298,867	6,355,833	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	15134D-AA-6	Cent CDO XI Limited Series 2006-11A Class A1	1	15,298,867	15,476,659
57629* AS 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,329,983	16,327,422	12/31/2012	12/31/2042	Swap/Vanilla			806713-AC-7	Schiller Park CLO LTD Series 2007-1A Class A2	1	16,329,983	16,327,422
57629* AS 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,628,741	8,816,990	12/31/2012	12/31/2042	Swap/Vanilla			46616K-AE-4	Jfin CLO Ltd Series 2013-1A Class B	1	8,628,741	8,816,990
57629* AS 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,174,969	10,903,370	12/31/2012	12/31/2042	Swap/Vanilla			03764D-AD-3	Apidos CDO Series 2013-12A Class C	1	11,174,969	10,903,370
57629* AS 0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,600,000	10,600,000	12/31/2012	12/31/2042	Swap/Vanilla			006897-AE-2	Adirondack Park CLO Ltd. Series 2013-1A Class B	1	10,600,000	10,600,000
57629* AT 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	21,262,196	12,236,314	12/31/2012	12/31/2042	Swap/Vanilla		(9,120,826)	14309B-AJ-3	Carlyle High Yield Partners Series 2006-9A Class A2	1	21,262,196	21,357,140
57629* AT 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,747,272	13,971,908	12/31/2012	12/31/2042	Swap/Vanilla			14308P-AA-2	Carlyle High Yield Partners Series 2006-8A Class A1	1	13,747,272	13,971,908
57629* AT 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,752,441	15,314,217	12/31/2012	12/31/2042	Swap/Vanilla			398078-AB-1	Greywolf CLO Ltd Series 2007-1A Class A	1	14,752,441	15,314,217
57629* AT 8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,486,363	4,297,500	12/31/2012	12/31/2042	Swap/Vanilla			15136R-AJ-4	Cent CLO LP Series 2013-18A Class C1	1	4,486,363	4,297,500
12513# XK2	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1	100,000,000	43,036,015	42,890,310	03/20/2013	06/20/2023	CDX Long-Cleared	(2,213,985)	(2,213,985)	F85688-AA-7	SONEPAR USD SR NT Due 05/15/2024	2	45,250,000	45,104,295
12513# XK2	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		45,000,000	40,070,700	03/20/2013	06/20/2023	CDX Long-Cleared			Q3079#-AC-2	DBCT FIN LTD USD SER A GTD SR SECD NT Due 9/12/2024	2	45,000,000	40,070,700
12513# XK2	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		12,800,000	12,571,264	03/20/2013	06/20/2023	CDX Long-Cleared			887147-AA#-3	Timberwest FST Corp USD SR BD SER 3 Due 10/13/2023	2	12,800,000	12,571,264
12513# XH9	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1	100,000,000	35,611,901	33,355,727	03/20/2013	06/20/2023	CDX Long-Cleared	(2,388,099)	(2,388,099)	48121#-AB-7	JRD Holdings LLC Senior Note Series 2012B	2	38,000,000	35,743,826
12513# XH9	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		35,000,000	32,986,450	03/20/2013	06/20/2023	CDX Long-Cleared			278058-F#-8	Eaton Corporation Senior Note Series B	2	35,000,000	32,986,450
12513# XH9	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		21,500,000	22,134,035	03/20/2013	06/20/2023	CDX Long-Cleared			Q3958#-AC-0	GAIF Bond Issuer Pty Ltd Gtd Senior Note Series C	2	21,500,000	22,134,035
12513# XH9	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		9,475,184	8,602,709	03/20/2013	06/20/2023	CDX Long-Cleared			13645R-AL-8	Canadian Pacific Railway Co. Senior Secured Note Series A	2	9,475,184	8,602,709
12513# XH9	Credit Default Indices (CDXNA44/CDX.NA.IG.20)	1		4,400,000	4,364,580	03/20/2013	06/20/2023	CDX Long-Cleared			22006#-AB-2	Corporation Service Co. Senior Note Series B	2	4,400,000	4,364,580
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1	250,000,000	25,533,549	30,118,402	03/20/2013	06/20/2018	CDX Long-Cleared	2,683,549	2,683,549	Q5516#-AC-0	Leighton Finance Ltd Gtd Senior Note Series C	2	22,850,000	27,434,853
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		20,300,000	22,219,771	03/20/2013	06/20/2018	CDX Long-Cleared			832696-C#-7	J M Smucker Company Senior Note	2	20,300,000	22,219,771
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		20,000,000	20,775,200	03/20/2013	06/20/2018	CDX Long-Cleared			G3157#-AB-0	European Metal Recycling Ltd Senior Secured Note Series B	2	20,000,000	20,775,200
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		16,000,000	19,396,160	03/20/2013	06/20/2018	CDX Long-Cleared			G8967#-AG-8	Triton Container Intl Ltd Senior Sec Note Ser 2008-A-3	2	16,000,000	19,396,160
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		15,800,000	18,349,614	03/20/2013	06/20/2018	CDX Long-Cleared			98478*-AP-2	Yankee Gas Services Company First Mortgage Bond Series J	2	15,800,000	18,349,614

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE DB - PART C - SECTION 1

Replication (Synthetic Asset) Transactions Open as of Current Statement Date

Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions							
1	2	3	4	5	6	7	8	Derivative Instrument(s) Open			Cash Instrument(s) Held				
		NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14 NAIC Designation or Other Description	15	16
Number	Description							Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description		Book/Adjusted Carrying Value	Fair Value
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		13,600,000	16,557,415	03/20/2013	06/20/2018	CDX Long-Cleared			74734*-AD-0	QinetiQ North America Inc. Gtd Senior Note Series D	2	13,600,000	16,557,415
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		12,500,000	14,297,625	03/20/2013	06/20/2018	CDX Long-Cleared			23314#-AC-3	DCT Industrial Operating LP Senior Note Class G	2	12,500,000	14,297,625
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		12,200,000	14,581,806	03/20/2013	06/20/2018	CDX Long-Cleared			G8030*-AD-2	Senior plc Senior Note Series B	2	12,200,000	14,581,806
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		11,000,000	12,740,090	03/20/2013	06/20/2018	CDX Long-Cleared			F8493#-AC-3	Sodexo Senior Note Series C	2	11,000,000	12,740,090
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		9,932,662	11,653,900	03/20/2013	06/20/2018	CDX Long-Cleared			28257V-AA-0	Eirries Three Ltd Senior Secured Note Class A	1	9,932,662	11,653,900
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		9,500,000	10,284,605	03/20/2013	06/20/2018	CDX Long-Cleared			G2685#-AB-5	Great Portland Estates plc Senior Note Series B	2	9,500,000	10,284,605
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		9,200,000	10,732,996	03/20/2013	06/20/2018	CDX Long-Cleared			C720#-AE-8	Pengrowth Corporation Senior Note Series A	2	9,200,000	10,732,996
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		9,150,000	9,748,044	03/20/2013	06/20/2018	CDX Long-Cleared			686194-B*-1	Oriflame Cosmetics SA Senior Note Series A	2	9,150,000	9,748,044
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		7,550,000	8,592,882	03/20/2013	06/20/2018	CDX Long-Cleared			910637-Q*-1	United Illuminating Co. Senior Note Series A	2	7,550,000	8,592,882
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		7,550,000	8,670,496	03/20/2013	06/20/2018	CDX Long-Cleared			910637-Q#-9	United Illuminating Co. Senior Note Series B	2	7,550,000	8,670,496
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		7,000,000	7,717,360	03/20/2013	06/20/2018	CDX Long-Cleared			Q2343*-AB-8	Amcor Finance USA Inc. Gtd Senior Note Series B	2	7,000,000	7,717,360
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		6,350,000	6,689,535	03/20/2013	06/20/2018	CDX Long-Cleared			608554-AA-0	Molex Inc. Senior Note Ser 2011A Tr B	1	6,350,000	6,689,535
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		5,950,000	7,041,926	03/20/2013	06/20/2018	CDX Long-Cleared			980745-B#-1	Woodward Inc Senior Note Series D	2	5,950,000	7,041,926
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		5,750,000	6,722,377	03/20/2013	06/20/2018	CDX Long-Cleared			Q31100-C#-7	Ametek Inc. Senior Note Series E	2	5,750,000	6,722,377
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		5,650,000	6,610,783	03/20/2013	06/20/2018	CDX Long-Cleared			5506#-AF-6	Luxottica US Holdings Corp. Gtd Senior Note Series C	2	5,650,000	6,610,783
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		5,649,746	6,302,179	03/20/2013	06/20/2018	CDX Long-Cleared			23307*-AB-8	D C Arena LP Gtd Senior Secured Note	2	5,649,746	6,302,179
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		12,600,000	14,102,726	03/20/2013	06/20/2018	CDX Long-Cleared			Q3040#-AD-4	American Water Capital Corp. Senior Note Series C	2	12,600,000	14,102,726
12513# XM8	Credit Default Indices (CDXNA42/CDX.NA.IG.20)	1		4,500,000	5,338,935	03/20/2013	06/20/2018	CDX Long-Cleared			G1744#-AE-8	Cadogan Estates Ltd Gtd Senior Note Series A	1	4,500,000	5,338,935
57629* AW1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	27,436,844	17,954,659	04/09/2013	04/09/2043	Swap/Vanilla		(9,372,942)	04014J-AA-2	Ares XXVI CLO Ltd. Series 2013-26A Class A	1	27,436,844	27,327,601
57629* AW1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,870,487	18,028,500	04/09/2013	04/09/2043	Swap/Vanilla			20779M-AC-2	Connecticut Valley Str CDO III Series 2006-3A Class A2	1	18,870,487	18,028,500
57629* AW1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,751,274	3,031,680	04/09/2013	04/09/2043	Swap/Vanilla			26249W-AD-7	Dryden Leveraged Loan CDO Series 2006-11A Class A3	1	2,751,274	3,031,680
57629* AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	60,000,000	20,400,000	9,919,973	04/09/2013	04/09/2043	Swap/Vanilla		(10,225,027)	04941G-AC-2	Atlas Senior Loan Fund III Ltd Series 2013-1A Class B	1	20,400,000	20,145,000
57629* AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,350,000	8,299,900	04/09/2013	04/09/2043	Swap/Vanilla			38137D-AC-1	Goldentree Loan Opp VII Ltd Series 2013-7A Class B	1	8,350,000	8,299,900
57629* AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,692,953	3,628,465	04/09/2013	04/09/2043	Swap/Vanilla			Q9625V-AG-6	Bluemountain CLO Ltd Series 2012-1A Class C	1	3,692,953	3,628,465
57629* AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,000,000	22,666,501	04/09/2013	04/09/2043	Swap/Vanilla			Q9626U-AC-2	Bluemountain CLO Ltd Series 2013-1A Class A2A	1	23,000,000	22,666,501
57629* AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,352,313	9,339,840	04/09/2013	04/09/2043	Swap/Vanilla			55818K-AG-6	Madison Park Funding Ltd. Series 2013-11A Class B1	1	9,352,313	9,339,840
57629* AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	30,332,771	20,927,870	04/09/2013	04/09/2043	Swap/Vanilla		(9,381,569)	20779M-AA-6	Connecticut Valley Str CDO III Series 2006-3A Class A1	1	30,332,771	30,309,439
57629* AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,150,623	17,018,750	04/09/2013	04/09/2043	Swap/Vanilla			38136B-AE-2	Goldentree Loan Opportunities Series 2007-3A Class A1BS	1	17,150,623	17,018,750
57629* AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	34,559,919	25,218,431	04/09/2013	04/09/2043	Swap/Vanilla		(9,381,569)	Q3763P-AA-3	Apidos CDO Series 2011-8A Class A1	1	34,559,919	34,600,000
57629* AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		44,576,787	44,232,000	04/09/2013	04/09/2043	Swap/Vanilla			44983W-AA-6	T N G Investment Management Series 2007-5A Class A1A	1	44,576,787	44,232,000
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	19,782,501	10,718,580	04/09/2013	04/09/2043	Swap/Vanilla		(9,416,763)	363186-AA-5	Galaxy CLO Ltd Series 2006-6A Class A1	1	19,782,501	20,135,343

STATEMENT AS OF SEPTEMBER 30, 2013 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE DB - PART C - SECTION 1

Replication (Synthetic Asset) Transactions Open as of Current Statement Date

Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions							
1	2	3	4	5	6	7	8	Derivative Instrument(s) Open			Cash Instrument(s) Held				
								9	10	11	12	13	14	15	16
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		21,700,319	22,241,914	04/09/2013	04/09/2043	Swap/Vanilla			87155M-AA-9 ..	Symphony CLO Ltd Series 2007-5A Class A1	1	21,700,319	22,241,914
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		42,435,604	42,703,294	04/09/2013	04/09/2043	Swap/Vanilla			05616X-AC-6 ..	Babson CLO Ltd 2007-I Series 2007- 1A Class A2A	1	42,435,604	42,703,294
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,669,388	15,010,384	04/09/2013	04/09/2043	Swap/Vanilla			056169-AA-3 ..	Babson Mid-Market CLO 2007-II Series 2007-2A Class A1	1	15,669,388	15,010,384
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,221,876	15,584,910	04/09/2013	04/09/2043	Swap/Vanilla			05615U-AC-3 ..	Babson CLO Ltd 2005-I Series 2005- 1A Class A1B1	1	15,221,876	15,584,910
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		19,540,197	19,750,000	04/09/2013	04/09/2043	Swap/Vanilla			05617G-AB-4 ..	Babson CLO Ltd. 2011-1 Series 2011- 1A Class A2	1	19,540,197	19,750,000
57629* AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,385,881	16,839,625	04/09/2013	04/09/2043	Swap/Vanilla			54303P-AB-1 ..	Longfellow Place CLO LTD Series 2013-1A Class B	1	16,385,881	16,839,625
57629* BA8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	60,000,000	42,712,886	32,344,208	04/09/2013	04/09/2043	Swap/Vanilla		(10,272,832)	35552X-AA-3 ..	Fraser Sullivan CLO Ltd Series 2011-6A Class A1	1	42,712,886	42,617,040
57629* BA8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		37,100,000	36,729,000	04/09/2013	04/09/2043	Swap/Vanilla			04941G-AA-6 ..	Atlas Senior Loan Fund III Ltd Series 2013-1A Class A	1	37,100,000	36,729,000
57629* BB6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	55,800,000	47,387,507	04/09/2013	04/09/2043	Swap/Vanilla		(8,551,993)	54303P-AA-3 ..	Longfellow Place CLO LTD Series 2013-1A Class A	1	55,800,000	55,939,500
57629* AZ4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	55,800,000	47,387,507	04/09/2013	04/09/2043	Swap/Vanilla		(8,551,993)	54303P-AA-3 ..	Longfellow Place CLO LTD Series 2013-1A Class A	1	55,800,000	55,939,500
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1	50,000,000	26,623,735	31,681,119	09/20/2013	12/20/2018	CDX Long-Cleared	473,735	473,735	Q3629#-AE-3 ..	ETSA Utilities Finance Pty Ltd./Gtd Senior Secured Note Ser C	1	26,150,000	31,207,384
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1		20,400,000	26,088,948	09/20/2013	12/20/2018	CDX Long-Cleared			G4691#-AC-9 ..	1 M I Group Limited Gtd Senior Note Series B	1	20,400,000	26,088,948
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1		5,000,000	5,770,345	09/20/2013	12/20/2018	CDX Long-Cleared			92964#-AA-7 ..	WY Georgia Holdings 2004 LLC Senior Secured Note	1	5,000,000	5,770,345
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1	50,000,000	20,426,072	19,448,163	09/20/2013	12/20/2018	CDX Long-Cleared	476,072	476,072	699462-A*-8 ..	Paraxel International Corp. Senior Note	2	19,950,000	18,972,091
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1		21,600,000	21,898,512	09/20/2013	12/20/2018	CDX Long-Cleared			00168#-AF-3 ..	ALS Group General Partnership Gtd Senior Note Series F	2	21,600,000	21,898,512
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1		13,700,000	14,755,585	09/20/2013	12/20/2018	CDX Long-Cleared			G1252#-AJ-3 ..	Bord Gais Eireann Senior Note Series D	2	13,700,000	14,755,585
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1	50,000,000	36,424,038	40,582,442	09/20/2013	12/20/2018	CDX Long-Cleared	422,701	422,701	22845#-AE-9 ..	Crown Pine Parent LP Senior Secured Note Series E	2	36,001,337	40,159,741
	Credit Default Indices (CDXNA45/CDX.NA.IG.20)	1		16,850,000	19,113,124	09/20/2013	12/20/2018	CDX Long-Cleared			D5861#-AA-7 ..	Nuplex Industries GmbH Gtd Senior Note Series A	2	16,850,000	19,113,124
9999999 - Totals				3,013,321,499	2,765,519,873	XXX	XXX	XXX	261,195	(327,142,407)	XXX	XXX	XXX	3,013,060,304	3,092,662,280

SCHEDULE DB - PART C - SECTION 2

Replication (Synthetic Asset) Transactions Open

	First Quarter		Second Quarter		Third Quarter		Fourth Quarter		Year To Date	
	1 Number of Positions	2 Total Replication (Synthetic Asset) Transactions Statement Value	3 Number of Positions	4 Total Replication (Synthetic Asset) Transactions Statement Value	5 Number of Positions	6 Total Replication (Synthetic Asset) Transactions Statement Value	7 Number of Positions	8 Total Replication (Synthetic Asset) Transactions Statement Value	9 Number of Positions	10 Total Replication (Synthetic Asset) Transactions Statement Value
1. Beginning Inventory	33	1,468,660,101	31	1,464,860,101	45	2,554,860,101			33	1,468,660,101
2. Add: Opened or Acquired Transactions.....			14	1,090,000,000	4	650,000,000			18	1,740,000,000
3. Add: Increases in Replication (Synthetic Asset) Transactions Statement Value.....	XXX		XXX		XXX		XXX		XXX	
4. Less: Closed or Disposed of Transactions.....	2	3,800,000			4	700,000,000			6	703,800,000
5. Less: Positions Disposed of for Failing Effectiveness Criteria.....										
6. Less: Decreases in Replication (Synthetic Asset) Transactions Statement Value	XXX		XXX		XXX		XXX		XXX	
7. Ending Inventory	31	1,464,860,101	45	2,554,860,101	45	2,504,860,101			45	2,504,860,101

SCHEDULE DB - VERIFICATION

Verification of Book/Adjusted Carrying Value, Fair Value and Potential Exposure of all Open Derivative Contracts

		Book/Adjusted Carrying Value Check
1.	Part A, Section 1, Column 14.....	1,838,032,372
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance.....	
3.	Total (Line 1 plus Line 2)	1,838,032,372
4.	Part D, Section 1, Column 5	6,457,411,081
5.	Part D, Section 1, Column 6	(4,619,378,709)
6.	Total (Line 3 minus Line 4 minus Line 5)	
		Fair Value Check
7.	Part A, Section 1, Column 16	1,515,882,320
8.	Part B, Section 1, Column 13	
9.	Total (Line 7 plus Line 8)	1,515,882,320
10.	Part D, Section 1, Column 8	6,462,664,632
11.	Part D, Section 1, Column 9	(4,946,782,312)
12.	Total (Line 9 minus Line 10 minus Line 11)	
		Potential Exposure Check
13.	Part A, Section 1, Column 21	2,528,167,529
14.	Part B, Section 1, Column 20	90,452,025
15.	Part D, Section 1, Column 11	2,618,619,554
16.	Total (Line 13 plus Line 14 minus Line 15)	

SCHEDULE E - VERIFICATION

(Cash Equivalents)

	1	2
	Year To Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	1,767,641,006	997,018,975
2. Cost of cash equivalents acquired	36,880,765,736	45,625,325,057
3. Accrual of discount	5,151,779	8,709,304
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	20,518	40,763
6. Deduct consideration received on disposals	37,348,975,111	44,863,453,093
7. Deduct amortization of premium		
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized		
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	1,304,603,928	1,767,641,006
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	1,304,603,928	1,767,641,006