

QUARTERLY STATEMENT

OF THE

Massachusetts Mutual Life Insurance Company

TO THE

Insurance Department

OF THE

STATE OF

**FOR THE QUARTER ENDED
SEPTEMBER 30, 2015**

LIFE AND ACCIDENT AND HEALTH

2015



LIFE AND ACCIDENT AND HEALTH COMPANIES - ASSOCIATION EDITION

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2015
OF THE CONDITION AND AFFAIRS OF THE

Massachusetts Mutual Life Insurance Company

NAIC Group Code 0435 0435 NAIC Company Code 65935 Employer's ID Number 04-1590850
(Current) (Prior)

Organized under the Laws of Massachusetts, State of Domicile or Port of Entry Massachusetts

Country of Domicile United States of America

Incorporated/Organized 05/15/1851 Commenced Business 08/01/1851

Statutory Home Office 1295 State Street Springfield, MA, US 01111
(Street and Number) (City or Town, State, Country and Zip Code)

Main Administrative Office 1295 State Street Springfield, MA, US 01111
(Street and Number) (City or Town, State, Country and Zip Code)
413-788-8411 (Area Code) (Telephone Number)

Mail Address 1295 State Street Springfield, MA, US 01111
(Street and Number or P.O. Box) (City or Town, State, Country and Zip Code)

Primary Location of Books and Records 1295 State Street Springfield, MA, US 01111
(Street and Number) (City or Town, State, Country and Zip Code)
413-788-8411 (Area Code) (Telephone Number)

Internet Website Address www.massmutual.com

Statutory Statement Contact Tammy A. Peatman 413-744-6327
(Name) (Area Code) (Telephone Number)
tpeatman@massmutual.com 413-226-4086
(E-mail Address) (FAX Number)

OFFICERS

President and Chief Executive Officer Roger William Crandall Treasurer Todd Garrett Picken
Secretary Pia Denise Flanagan Appointed Actuary Douglas Wright Taylor #

OTHER

Michael Thomas Rollings Executive Vice President and Chief Financial Officer
Michael Robert Fanning Executive Vice President
Melvin Timothy Corbett Executive Vice President and Chief Investment Officer
Robert Joseph Casale Executive Vice President and Chief Information Officer
Debra Ann Palermino Executive Vice President
Mark Douglas Roellig Executive Vice President and General Counsel
Elaine Anne Sarsynski Executive Vice President
Elizabeth Ward Chicares Executive Vice President, Chief Enterprise Risk Officer and Chief Actuary

DIRECTORS OR TRUSTEES

Roger William Crandall - Chairman Mark Thomas Bertolini # Kathleen Ann Corbet - Lead Director
James Henry DeGraffenreidt Jr Patricia Diaz Dennis Robert Alan Essner
Isabella Davidov Goren Raymond Walter LeBoeuf Jeffrey Marc Leiden #
Cathy Elizabeth Minehan Marc Francis Racicot Laura Jeanne Sen
William Taylor Spitz Howard Todd Stitzer

State of Massachusetts SS:
County of Hampden

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

Pia Denise Flanagan
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.....

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

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	78,641,789,541		78,641,789,541	74,719,297,121
2. Stocks:				
2.1 Preferred stocks	588,676,086		588,676,086	524,694,819
2.2 Common stocks	9,288,307,221		9,288,307,221	9,128,287,238
3. Mortgage loans on real estate:				
3.1 First liens	21,250,602,803		21,250,602,803	19,356,684,887
3.2 Other than first liens.....				
4. Real estate:				
4.1 Properties occupied by the company (less \$ encumbrances)	171,082,237		171,082,237	167,622,973
4.2 Properties held for the production of income (less \$601,153,372 encumbrances)	701,202,136		701,202,136	607,611,722
4.3 Properties held for sale (less \$ encumbrances)	50,272,523		50,272,523	642,677
5. Cash (\$232,967,470), cash equivalents (\$2,396,509,359) and short-term investments (\$151,458,942)	2,780,935,771		2,780,935,771	1,880,018,093
6. Contract loans (including \$ premium notes)	11,669,645,252	475,431	11,669,169,821	11,154,830,517
7. Derivatives	10,232,125,399		10,232,125,399	8,530,592,049
8. Other invested assets	7,569,833,740	68,109,117	7,501,724,623	6,969,992,804
9. Receivables for securities	52,633,650		52,633,650	3,915,501
10. Securities lending reinvested collateral assets				
11. Aggregate write-ins for invested assets				
12. Subtotals, cash and invested assets (Lines 1 to 11)	142,997,106,359	68,584,548	142,928,521,811	133,044,190,401
13. Title plants less \$ charged off (for Title insurers only)				
14. Investment income due and accrued	1,809,893,901	2,109,239	1,807,784,662	1,710,174,389
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	102,883,420	4,552,511	98,330,909	124,747,380
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	582,714,763		582,714,763	592,103,755
15.3 Accrued retrospective premiums				
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	27,409,156		27,409,156	35,049,120
16.2 Funds held by or deposited with reinsured companies				
16.3 Other amounts receivable under reinsurance contracts	8,668,904		8,668,904	40,733,277
17. Amounts receivable relating to uninsured plans				
18.1 Current federal and foreign income tax recoverable and interest thereon	114,319,680		114,319,680	
18.2 Net deferred tax asset	1,300,512,001	22,954,012	1,277,557,989	958,830,087
19. Guaranty funds receivable or on deposit	28,253,866		28,253,866	29,019,327
20. Electronic data processing equipment and software	391,035,616	352,366,756	38,668,860	31,923,706
21. Furniture and equipment, including health care delivery assets (\$)	42,857,818	42,857,818		
22. Net adjustment in assets and liabilities due to foreign exchange rates				
23. Receivables from parent, subsidiaries and affiliates	55,886,173		55,886,173	58,637,136
24. Health care (\$) and other amounts receivable				
25. Aggregate write-ins for other than invested assets	1,225,627,226	912,415,318	313,211,908	179,238,460
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	148,687,168,883	1,405,840,202	147,281,328,681	136,804,647,038
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts	58,577,080,818		58,577,080,818	60,384,442,334
28. Total (Lines 26 and 27)	207,264,249,701	1,405,840,202	205,858,409,499	197,189,089,372
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. Fully refundable deposits, prepayments and other miscellaneous	309,842,250	68,138,858	241,703,392	79,829,406
2502. Employee insurance plan advances	39,281,008	49,937	39,231,071	38,561,617
2503. Investment in trust	32,272,134		32,272,134	36,283,306
2598. Summary of remaining write-ins for Line 25 from overflow page	844,231,834	844,226,523	5,311	24,564,131
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	1,225,627,226	912,415,318	313,211,908	179,238,460

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

LIABILITIES, SURPLUS AND OTHER FUNDS

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$ 96,955,115,839 less \$ included in Line 6.3 (including \$ 49,199,116 Modco Reserve)	96,955,115,839	90,679,671,843
2. Aggregate reserve for accident and health contracts (including \$ 55,434,389 Modco Reserve)	2,664,953,066	2,610,834,429
3. Liability for deposit-type contracts (including \$ Modco Reserve)	9,560,405,444	9,044,956,553
4. Contract claims:		
4.1 Life	410,549,931	328,774,184
4.2 Accident and health	23,882,343	23,812,968
5. Policyholders' dividends \$ 9,757,496 and coupons \$ due and unpaid	9,757,496	10,327,990
6. Provision for policyholders' dividends and coupons payable in following calendar year - estimated amounts:		
6.1 Dividends apportioned for payment (including \$ Modco)	1,688,845,215	1,568,905,844
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 \$ 9,428,659 accident and health premiums	38,092,934	27,972,242
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	16,784,773	14,403,870
9.3 Other amounts payable on reinsurance, including \$ 13,666,444 assumed and \$ 10,819,679 ceded	24,486,123	25,332,548
9.4 Interest Maintenance Reserve	411,148,122	628,009,087
10. Commissions to agents due or accrued-life and annuity contracts \$ 28,814,097 , accident and health \$ 563,246 and deposit-type contract funds \$ 8,291,392	37,668,735	28,485,303
11. Commissions and expense allowances payable on reinsurance assumed	5,226,981	4,977,134
12. General expenses due or accrued	782,562,624	903,087,683
13. Transfers to Separate Accounts due or accrued (net) (including \$ (198,492,789) accrued for expense allowances recognized in reserves, net of reinsured allowances)	(253,817,483)	(262,169,828)
14. Taxes, licenses and fees due or accrued, excluding federal income taxes	47,087,375	53,539,631
15.1 Current federal and foreign income taxes, including \$ on realized capital gains (losses)		176,880,789
15.2 Net deferred tax liability		
16. Unearned investment income	181,284,947	118,545,679
17. Amounts withheld or retained by company as agent or trustee	52,500,399	116,376,725
18. Amounts held for agents' account, including \$ agents' credit balances	247,262,733	258,144,803
19. Remittances and items not allocated	206,066,828	138,100,742
20. Net adjustment in assets and liabilities due to foreign exchange rates	9,549	36,888
21. Liability for benefits for employees and agents if not included above	170,277,146	176,498,890
22. Borrowed money \$ 272,118,219 and interest thereon \$ (18,736)	272,099,483	267,872,830
23. Dividends to stockholders declared and unpaid		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve	2,888,210,590	2,620,278,026
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	56,955,224	22,913,431
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance		
24.08 Derivatives	6,892,885,936	5,423,727,278
24.09 Payable for securities	226,467,710	74,548,770
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	8,865,692,431	7,498,434,458
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	132,482,462,494	122,583,280,790
27. From Separate Accounts Statement	58,567,903,334	60,374,482,531
28. Total liabilities (Lines 26 and 27)	191,050,365,828	182,957,763,321
29. Common capital stock		
30. Preferred capital stock		
31. Aggregate write-ins for other than special surplus funds		
32. Surplus notes	2,231,343,766	1,740,221,149
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)	12,573,449,905	12,487,854,902
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 \$ 9,177,483 in Separate Accounts Statement)	14,808,043,671	14,231,326,051
38. Totals of Lines 29, 30 and 37	14,808,043,671	14,231,326,051
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	205,858,409,499	197,189,089,372
DETAILS OF WRITE-INS		
2501. Repurchase agreements and interest liability	5,151,993,432	4,659,311,242
2502. Derivative collateral	2,041,025,352	1,405,410,839
2503. Derivative interest liability	1,606,861,708	1,391,657,399
2598. Summary of remaining write-ins for Line 25 from overflow page	65,811,939	42,054,978
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	8,865,692,431	7,498,434,458
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	15,235,418,627	13,481,278,174	18,367,394,338
2. Considerations for supplementary contracts with life contingencies	9,130,923	10,945,638	15,205,660
3. Net investment income	4,387,123,292	4,651,973,089	6,140,050,815
4. Amortization of Interest Maintenance Reserve (IMR)	108,098,656	145,954,835	191,749,804
5. Separate Accounts net gain from operations excluding unrealized gains or losses	(17,178)	1,265	27,524
6. Commissions and expense allowances on reinsurance ceded	70,295,522	70,583,373	108,676,169
7. Reserve adjustments on reinsurance ceded	21,405,187	16,632,047	21,071,889
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	266,478,918	254,480,636	340,739,558
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	289,566,775	294,908,125	405,442,924
9. Totals (Lines 1 to 8.3)	20,387,500,722	18,926,757,182	25,590,358,681
10. Death benefits	1,334,693,462	1,081,851,044	1,432,009,576
11. Matured endowments (excluding guaranteed annual pure endowments)	10,858,781	11,840,826	15,135,799
12. Annuity benefits	1,073,273,519	964,526,327	1,305,395,885
13. Disability benefits and benefits under accident and health contracts	273,857,795	266,813,040	353,840,796
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	8,982,142,517	9,986,332,150	13,125,050,310
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	215,771,297	225,081,526	296,709,882
18. Payments on supplementary contracts with life contingencies	8,207,564	7,566,312	10,164,347
19. Increase in aggregate reserves for life and accident and health contracts	6,341,465,822	4,651,655,388	7,081,465,869
20. Totals (Lines 10 to 19)	18,240,270,757	17,195,666,613	23,619,772,464
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	541,285,930	493,358,314	687,950,268
22. Commissions and expense allowances on reinsurance assumed	96,313,790	93,381,614	125,930,286
23. General insurance expenses	1,293,472,968	1,313,536,557	1,792,001,212
24. Insurance taxes, licenses and fees, excluding federal income taxes	152,793,223	148,044,731	200,415,440
25. Increase in loading on deferred and uncollected premiums	(7,321,614)	(5,314,960)	3,173,296
26. Net transfers to or (from) Separate Accounts net of reinsurance	(343,725,797)	(723,792,903)	(1,278,806,133)
27. Aggregate write-ins for deductions	(652,329,735)	(1,237,967,416)	(1,592,968,709)
28. Totals (Lines 20 to 27)	19,320,759,522	17,276,912,550	23,557,468,124
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	1,066,741,200	1,649,844,632	2,032,890,557
30. Dividends to policyholders	1,215,020,217	1,082,491,651	1,553,324,172
31. Net gain from operations after dividends to policyholders and before federal income taxes (Line 29 minus Line 30)	(148,279,017)	567,352,981	479,566,385
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	(103,224,168)	117,324,005	22,524,628
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)	(45,054,849)	450,028,976	457,041,757
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ 115,420,972 (excluding taxes of \$ 19,216,700 transferred to the IMR)	98,956,245	(36,534,521)	166,082,947
35. Net income (Line 33 plus Line 34)	53,901,396	413,494,455	623,124,704
CAPITAL AND SURPLUS ACCOUNT			
36. Capital and surplus, December 31, prior year	14,231,326,051	12,524,446,904	12,524,446,904
37. Net income (Line 35)	53,901,396	413,494,455	623,124,704
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ 14,425,199	258,894,949	1,525,559,351	2,021,875,603
39. Change in net unrealized foreign exchange capital gain (loss)	(139,139,438)	(119,883,717)	(239,973,391)
40. Change in net deferred income tax	281,829,085	77,875,155	103,819,922
41. Change in nonadmitted assets	(117,185,512)	(66,239,078)	(97,452,470)
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			
44. Change in asset valuation reserve	(267,932,564)	(322,323,785)	(425,731,855)
45. Change in treasury stock			
46. Surplus (contributed to) withdrawn from Separate Accounts during period	(32,634)	8,671	(1,481)
47. Other changes in surplus in Separate Accounts Statement	(765,141)	597,533	631,676
48. Change in surplus notes	491,122,617	304,064	405,419
49. Cumulative effect of changes in accounting principles	2,617,428		
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	13,407,434	(72,351,299)	(279,818,980)
54. Net change in capital and surplus for the year (Lines 37 through 53)	576,717,620	1,437,041,350	1,706,879,147
55. Capital and surplus, as of statement date (Lines 36 + 54)	14,808,043,671	13,961,488,254	14,231,326,051
DETAILS OF WRITE-INS			
08.301. Administrative fee and other income	289,566,775	294,908,125	405,442,924
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)	289,566,775	294,908,125	405,442,924
2701. Change in reserves due to the RPG reinsurance agreement	(662,288,680)	(1,204,864,908)	(1,564,491,237)
2702. Market value adjustment transfer	(12,043,664)	(28,620,878)	(36,614,551)
2703. Change in liability for employee/agent benefit plans	(4,010,472)	11,880,980	22,731,500
2798. Summary of remaining write-ins for Line 27 from overflow page	26,013,081	(16,362,610)	(14,594,421)
2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	(652,329,735)	(1,237,967,416)	(1,592,968,709)
5301. Other changes in surplus	13,407,434	(72,351,299)	(123,157,060)
5302. Change in minimum pension liability			(156,661,920)
5303.			
5398. Summary of remaining write-ins for Line 53 from overflow page			
5399. Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	13,407,434	(72,351,299)	(279,818,980)

STATEMENT AS OF SEPTEMBER 30, 2015 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	15,295,035,420	13,505,553,471	18,305,215,153
2. Net investment income	4,548,704,939	4,736,601,786	6,132,932,993
3. Miscellaneous income	688,326,858	576,473,743	775,564,108
4. Total (Lines 1 to 3)	20,532,067,217	18,818,629,000	25,213,712,254
5. Benefit and loss related payments	11,930,880,568	13,046,689,749	16,962,527,715
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	(352,875,887)	(744,527,300)	(1,303,064,631)
7. Commissions, expenses paid and aggregate write-ins for deductions	1,494,022,566	894,277,624	1,074,035,464
8. Dividends paid to policyholders	1,095,651,340	1,018,830,678	1,471,367,840
9. Federal and foreign income taxes paid (recovered) net of \$ 404,162,042 tax on capital gains (losses)	390,734,510	(103,086,341)	10,025,424
10. Total (Lines 5 through 9)	14,558,413,097	14,112,184,410	18,214,891,812
11. Net cash from operations (Line 4 minus Line 10)	5,973,654,120	4,706,444,590	6,998,820,442
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	10,446,029,539	10,658,817,594	16,588,980,286
12.2 Stocks	882,149,921	522,089,658	666,240,604
12.3 Mortgage loans	1,594,382,107	1,223,056,837	1,733,777,081
12.4 Real estate	11,135,408	49,685,660	338,453,781
12.5 Other invested assets	1,780,451,978	1,238,173,288	1,593,464,390
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	5,859,309	3,082,375	673,426
12.7 Miscellaneous proceeds	94,753,886	31,025,654	282,851,094
12.8 Total investment proceeds (Lines 12.1 to 12.7)	14,814,762,148	13,725,931,066	21,204,440,662
13. Cost of investments acquired (long-term only):			
13.1 Bonds	14,343,544,227	16,002,547,689	23,720,804,162
13.2 Stocks	991,853,024	906,324,115	1,251,777,169
13.3 Mortgage loans	3,536,341,148	3,281,585,373	4,700,460,142
13.4 Real estate	227,087,520	164,049,771	144,058,274
13.5 Other invested assets	2,362,005,137	863,750,809	1,512,031,706
13.6 Miscellaneous applications	(46,440,262)	305,076,294	417,273,891
13.7 Total investments acquired (Lines 13.1 to 13.6)	21,414,390,794	21,523,334,051	31,746,405,344
14. Net increase (or decrease) in contract loans and premium notes	514,436,062	416,214,377	569,562,023
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(7,114,064,708)	(8,213,617,362)	(11,111,526,705)
Cash from Financing and Miscellaneous Sources			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes	491,122,617	304,064	405,419
16.2 Capital and paid in surplus, less treasury stock			
16.3 Borrowed funds	4,223,941	21,868	17,903,055
16.4 Net deposits on deposit-type contracts and other insurance liabilities	644,967,906	22,202,530	81,583,534
16.5 Dividends to stockholders			
16.6 Other cash provided (applied)	901,013,802	864,823,798	1,694,830,609
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	2,041,328,266	887,352,260	1,794,722,617
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)	900,917,678	(2,619,820,512)	(2,317,983,646)
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	1,880,018,093	4,198,001,739	4,198,001,739
19.2 End of period (Line 18 plus Line 19.1)	2,780,935,771	1,578,181,227	1,880,018,093

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

20.0001. Bond conversions and refinancing	1,968,066,717	570,567,534	1,065,550,505
20.0002. Premium recognized for a group annuity contract	816,524,224		
20.0003. Bonds received as consideration for a group annuity contract	812,352,541		
20.0004. Bonds received as consideration for assignment of deposit-type liabilities	541,489,332		
20.0005. Deposit-type liabilities assigned in exchange for bonds	541,489,332		
20.0006. Bank loan rollovers	214,753,833	197,168,433	625,096,322
20.0007. Transfer from partnerships and LLCs to real estate in connection with a change in accounting principle	23,950,611		
20.0008. Stock conversions	24,510,899	22,768,492	33,692,797
20.0009. Dividend reinvestment	15,705,245	24,385,434	50,601,746

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

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

20.0010. Partnerships and LLCs received as consideration for a group annuity contract	4,171,683		
20.0011. Interest capitalization for long-term debt	3,059,079	4,699,572	5,019,058
20.0012. Other invested assets stock distribution	5,018,524	3,200,228	3,640,331
20.0013. Net investment income payment in-kind bonds	2,836,312	3,302,928	16,027,135
20.0014. Mortgage loan issued in sale of real estate			150,000,000

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	4,029,855,200	3,671,113,615	5,384,678,458
3. Ordinary individual annuities	1,584,474,463	1,856,685,200	2,511,742,138
4. Credit life (group and individual)			
5. Group life insurance	1,078,596,935	868,103,178	1,235,746,123
6. Group annuities	7,346,456,993	5,689,477,561	7,509,047,618
7. A & H - group	127,657	147,180	191,566
8. A & H - credit (group and individual)			
9. A & H - other	518,006,701	506,997,032	680,017,873
10. Aggregate of all other lines of business			
11. Subtotal	14,557,517,949	12,592,523,766	17,321,423,776
12. Deposit-type contracts	2,112,911,072	748,816,517	948,813,973
13. Total	16,670,429,021	13,341,340,283	18,270,237,749
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 – Liabilities, Contingencies and Assessments
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

NOTES TO FINANCIAL STATEMENTS

Note 1 – Summary of Significant Accounting Policies

a. Accounting practices:

The accompanying financial statements of Massachusetts Mutual Life Insurance Company (the Company) have been prepared in conformity with the Statutory Accounting Practices (SAP) of the National Association of Insurance Commissioners (NAIC) and the accounting practices prescribed or permitted by the Commonwealth of Massachusetts Division of Insurance (the Division).

A reconciliation of the Company's net income and capital and surplus between NAIC SAP and practices prescribed and permitted by the State of Massachusetts is shown below:

	State of Domicile	2015	2014
(In Millions)			
NET INCOME			
(1) State basis (Page 4, Line 35, Columns 1 & 3)	MA	\$ 54	\$ 623
(2) State prescribed practices that increase (decrease) NAIC SAP	-	-	-
(3) State permitted practices that increase (decrease) NAIC SAP	-	-	-
(4) NAIC SAP (1-2-3=4)	MA	\$ 54	\$ 623
SURPLUS			
(5) State basis (Page 3, Line 38, Columns 1 & 2)	MA	\$ 14,808	\$ 14,231
(6) State prescribed practices that increase (decrease) NAIC SAP	-	-	-
(7) State permitted practices that increase (decrease) NAIC SAP	-	-	-
(8) NAIC SAP (5-6-7=8)	MA	\$ 14,808	\$ 14,231

b. Use of estimates in the preparation of the financial statements – No change

c. Accounting policy:

(1-5) No change

(6) For fixed income securities that do not have a fixed schedule of payments, such as asset-backed securities, mortgage-backed securities, including residential mortgage-backed securities and commercial mortgage-backed securities, and structured securities, including collateralized debt obligations, amortization or accretion is revalued quarterly based on the current estimated cash flows, using either the prospective or retrospective adjustment methodologies for each type of security.

Certain fixed income securities with the highest ratings from a rating agency follow the retrospective method of accounting. Under the retrospective method, the recalculated effective yield equates the present value of the actual and anticipated cash flows, including new prepayment assumptions, to the original cost of the investment. Prepayment assumptions are based on borrower constraints and economic incentives such as the original term, age and coupon of the loan as affected by the interest rate environment. The current carrying value is then increased or decreased to the amount that would have resulted had the revised yield been applied since inception, and investment income is correspondingly decreased or increased.

All other fixed income securities, such as floating rate bonds and interest only securities, including those that have been impaired, follow the prospective method of accounting. Under the prospective method, the recalculated future effective yield equates the carrying value of the investment to the present value of the anticipated future cash flows.

(7-14) No change

Note 2 – Accounting Changes and Corrections of Errors

a. For the nine months ended September 30, 2015, corrections of prior year errors were recorded in surplus, net of tax:

	Increase (Decrease) to:		
	Prior Year	Current Year	Correction of Asset or Liability Balances
	Net Income	Surplus	
(In Millions)			
Policyholders' reserves	\$ 11	\$ 11	\$ (11)
Policyholders' benefits	4	4	(4)
Net investment income	(1)	(1)	(1)
Total	\$ 14	\$ 14	\$ (16)

NOTES TO FINANCIAL STATEMENTS

For the nine months ended September 30, 2014, corrections of prior year errors were recorded in surplus on a pre-tax basis with any associated tax corrections reported through net income:

	Decrease to:		Correction of Asset or Liability Balances
	Prior Year Income	Current Year Surplus	
	(In Millions)		
Policyholders' reserves	\$ (61)	\$ (61)	\$ 61
Other liabilities	(11)	(11)	11
Total	<u>\$ (72)</u>	<u>\$ (72)</u>	<u>\$ 72</u>

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

- b. Adoption of new accounting standards:
In December 2014, the NAIC issued Statement of Statutory Accounting Principles (SSAP) No. 40 Revised, "Real Estate Investments" (SSAP No. 40R), which was effective January 1, 2015, and requires that single real estate property investments that are directly and wholly-owned through a limited liability company (LLC) be accounted for, and reported as, directly owned real estate provided that certain criteria are met. For investments meeting the criteria that were previously reported within SSAP No. 48, "Joint Ventures, Partnerships and Limited Liability Companies" (SSAP No. 48), and owned as of the effective date, this guidance required that the Company recognize a cumulative effect of a change in accounting principle as if the entity had followed the revisions of SSAP No. 40R since acquisition of the property. As a result of the adoption of this guidance, the Company transferred \$24 million of a real estate asset held in a wholly-owned LLC from partnerships and LLCs to real estate and recorded a \$3 million increase to surplus as a cumulative effect of a change in accounting principle.

Note 3 – Business Combinations and Goodwill – No change**Note 4 – Discontinued Operations** – No change**Note 5 – Investments**

- a. Mortgage loans, including mezzanine real estate loans – No change
- b. Debt restructuring – No change
- c. Reverse mortgages – No change
- d. Loan-backed and structured securities:
- (1) Prepayment assumptions for loan-backed and structured securities are based on various assumptions and inputs obtained from external industry sources along with internal analysis and actual experience.
 - (2) The following contains loan-backed and structured securities that recognized other-than-temporary impairments (OTTI) classified on the following bases for recognizing OTTI:

NOTES TO FINANCIAL STATEMENTS

(1)	(2)		(3)
Amortized Cost Basis	OTTI Recognized in Loss		Fair Value
Before OTTI	(2a) Interest	(2b) Non-interest	1-(2a+2b)
(In Millions)			

OTTI recognized in the first quarter

a. Intent to sell	\$ -	\$ -	\$ -	\$ -
b. Inability or lack of intent to retain the investment in the security for a period of time sufficient to recover the amortized cost basis	18	-	-	18
c. Total first quarter	<u>\$ 18</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 18</u>

OTTI recognized in the second quarter

d. Intent to sell	\$ -	\$ -	\$ -	\$ -
e. Inability or lack of intent to retain the investment in the security for a period of time sufficient to recover the amortized cost basis	67	-	2	65
f. Total second quarter	<u>\$ 67</u>	<u>\$ -</u>	<u>\$ 2</u>	<u>\$ 65</u>

OTTI recognized in the third quarter

g. Intent to sell	\$ -	\$ -	\$ -	\$ -
h. Inability or lack of intent to retain the investment in the security for a period of time sufficient to recover the amortized cost basis	51	-	5	46
i. Total third quarter	<u>\$ 51</u>	<u>\$ -</u>	<u>\$ 5</u>	<u>\$ 46</u>

OTTI recognized in the fourth quarter

j. Intent to sell	\$ -	\$ -	\$ -	\$ -
k. Inability or lack of intent to retain the investment in the security for a period of time sufficient to recover the amortized cost basis	-	-	-	-
l. Total fourth quarter	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

m. Annual Aggregate Total

<u>\$ -</u>	<u>\$ 7</u>
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All impairments were taken due to present value of cash flows expected to be collected being less than the amortized cost basis.

(3) The following is 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.

CUSIP	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value at Time of OTTI	Date of Financial Instrument Where Reported
05948JAA0	\$ 140,272.10	\$ 134,123.48	\$ (6,148.62)	\$ 134,123.48	\$ 134,714.77	March 31, 2015
125435AA5	761,146.58	760,429.38	(717.20)	760,429.38	756,781.89	March 31, 2015
17307GKZ0	181,599.21	181,427.62	(171.59)	181,427.62	178,302.24	March 31, 2015
585525FC7	39,641.31	39,369.38	(271.93)	39,369.38	39,067.16	March 31, 2015
589929N38	442,399.12	440,825.92	(1,573.20)	440,825.92	427,585.66	March 31, 2015
61750MAB1	6,703.44	6,082.46	(620.98)	6,082.46	6,632.60	March 31, 2015
81744FDK0	1,457,921.03	1,443,546.61	(14,374.42)	1,443,546.61	1,418,067.40	March 31, 2015
86359DMC8	10,456,789.36	10,378,178.75	(78,610.61)	10,378,178.75	10,326,945.98	March 31, 2015
885220FS7	3,341,468.04	3,273,617.68	(67,850.36)	3,273,617.68	3,293,395.98	March 31, 2015
92922F2G2	56,110.80	55,440.74	(670.06)	55,440.74	54,572.94	March 31, 2015
939336KZ5	972,396.06	968,468.33	(3,927.73)	968,468.33	917,932.26	March 31, 2015
125435AA5	5,591,390.77	5,519,187.17	(72,203.60)	5,519,187.17	5,281,761.87	June 30, 2015
17307GKZ0	119,235.95	118,847.22	(388.73)	118,847.22	116,727.92	June 30, 2015
77277LAF4	29,050,737.79	28,226,832.71	(823,905.08)	28,226,832.71	33,335,201.70	June 30, 2015
77277LAH0	1,453,924.32	1,413,733.82	(40,190.50)	1,413,733.82	3,212,064.00	June 30, 2015
77277LAJ6	20,587,172.84	20,018,166.32	(569,006.52)	20,018,166.32	20,976,785.46	June 30, 2015
86359DMC8	10,122,465.03	9,943,818.17	(178,646.86)	9,943,818.17	10,030,934.28	June 30, 2015
17307GKZ0	117,486.80	117,127.93	(358.87)	117,127.93	115,240.08	September 30, 2015
55274SAM3	341,582.01	324,346.42	(17,235.59)	324,346.42	334,591.45	September 30, 2015
77277LAF4	28,226,832.71	25,446,697.16	(2,780,135.55)	25,446,697.16	33,421,879.80	September 30, 2015
77277LAH0	1,413,733.84	1,278,117.52	(135,616.32)	1,278,117.52	3,220,416.00	September 30, 2015
77277LAJ6	20,018,166.31	18,098,147.21	(1,920,019.10)	18,098,147.21	21,031,329.24	September 30, 2015
79549ASM2	413,580.73	401,422.28	(12,158.45)	401,422.28	400,195.67	September 30, 2015
Totals	<u>\$ 135,312,756.15</u>	<u>\$ 128,587,954.28</u>	<u>\$ (6,724,801.87)</u>	<u>\$ 128,587,954.28</u>	<u>\$ 149,031,126.35</u>	

NOTES TO FINANCIAL STATEMENTS

(4) As of September 30, 2015, 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 follow (in millions):

a. The aggregate amount of unrealized losses:		
1. Less than 12 months	\$	(67)
2. 12 months or longer	\$	(129)
b. The aggregate related fair value of securities with unrealized losses:		
1. Less than 12 months	\$	4,140
2. 12 months or longer	\$	4,077

(5) No additional information.

e. Repurchase agreements:

(1-2) No change

(3) The Company does not have any securities lending transactions administered by an affiliated agent.

(4-6) No change

f. Real estate – No change

g. Low income housing tax credit properties – No change

h. Restricted assets – No change

i. Working capital finance investments – The Company did not invest in working capital finance investments.

j. Offsetting and netting of assets and liabilities - The Company reports assets and liabilities as gross in the financial statements without offsetting.

k. Structured notes - No change

Note 6 – Joint Ventures, Partnerships and LLCs - No change

Note 7 – Investment Income – No change

Note 8 – Derivative Instruments - No change

Note 9 – Income Taxes – No change

Note 10 – Information Concerning Parent, Subsidiaries and Affiliates

a-f. No change

g. MassMutual Holding LLC's (MMHLLC) subsidiaries are involved in litigation and investigations arising in the ordinary course of their business, which seek both compensatory and punitive damages and equitable remedies. 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 surplus for a particular period depending upon, among other factors, the size of the loss and the level of the Company's changes in surplus for the period.

The Company has no parent.

h-l. No change

Note 11 – Debt

a. No change

b. Federal Home Loan Bank agreements

(1) The Company is a member of the Federal Home Loan Bank of Boston (FHLB Boston). Through its membership, the Company has conducted business activity (borrowings) with the FHLB Boston. The Company uses these funding agreements with the FHLB Boston in an investment spread strategy, consistent with its other investment spread operations. The Company has determined the actual maximum borrowing capacity as \$2.0 billion. The Company's unused capacity was \$658 million as of September 30, 2015.

NOTES TO FINANCIAL STATEMENTS

(2) FHLB Boston capital stock

a. Aggregate totals:

1. Current year:

September 30, 2015			
	1	2	3
	Total	General	Separate
	2+3	Account	Account
(In Millions)			
(a) Membership stock - class A	\$ -	\$ -	\$ -
(b) Membership stock - class B	25	25	-
(c) Activity stock	50	50	-
(d) Excess stock	-	-	-
(e) Aggregate total	<u>\$ 75</u>	<u>\$ 75</u>	<u>-</u>
(f) Actual borrowing capacity as determined by the Insurer	\$ 658	\$ 658	-

2. Prior year-end:

December 31, 2014			
	1	2	3
	Total	General	Separate
	2+3	Account	Account
(In Millions)			
(a) Membership stock - class A	\$ -	\$ -	\$ -
(b) Membership stock - class B	25	25	-
(c) Activity stock	32	32	-
(d) Excess stock	-	-	-
(e) Aggregate total	<u>\$ 57</u>	<u>\$ 57</u>	<u>-</u>
(f) Actual borrowing capacity as determined by the Insurer	\$ 1,206	\$ 1,206	-

b. Membership stock (class A and B) eligible for redemption:

Nine Months Ended September 30, 2015						
Membership Stock	Current Year Total	Not Eligible for Redemption	Less Than 6 Months	6 Months to Less Than 1 Year	1 to Less Than 3 Years	3 to 5 Years
(In Millions)						
1. Class A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2. Class B	25	25	-	-	-	-

NOTES TO FINANCIAL STATEMENTS

(3) Collateral pledged to FHLB:

a. Amount pledged as of September 30, 2015 (in millions):

1. Current year total general and separate accounts:

	Fair Value	Carrying Value	Aggregate Total Borrowing
Total collateral pledged	\$ 1,263	\$ 1,121	\$ 1,105

2. Current year general account:

	Fair Value	Carrying Value	Aggregate Total Borrowing
Total collateral pledged	\$ 1,263	\$ 1,121	\$ 1,105

3. Current year separate accounts:

	Fair Value	Carrying Value	Aggregate Total Borrowing
Total collateral pledged	\$ -	\$ -	\$ -

4. Prior year-end total general and separate accounts:

	Fair Value	Carrying Value	Aggregate Total Borrowing
Total collateral pledged	\$ 855	\$ 723	\$ 701

b. Maximum amount pledged for the nine months ended September 30, 2015 (in millions):

1. Current year total general and separate accounts:

	Fair Value	Carrying Value	Amount Borrowed at Time of Maximum Collateral
Maximum collateral pledged	\$ 1,265	\$ 1,126	\$ 1,105

2. Current year general account:

	Fair Value	Carrying Value	Amount Borrowed at Time of Maximum Collateral
Maximum collateral pledged	\$ 1,265	\$ 1,126	\$ 1,105

3. Current year separate accounts:

	Fair Value	Carrying Value	Amount Borrowed at Time of Maximum Collateral
Maximum collateral pledged	\$ -	\$ -	\$ -

4. Prior year-end total general and separate accounts:

	Fair Value	Carrying Value	Amount Borrowed at Time of Maximum Collateral
Maximum collateral pledged	\$ 855	\$ 723	\$ 701

NOTES TO FINANCIAL STATEMENTS

(4) Borrowing from FHLB:

a. Amount:

1. Current year:

September 30, 2015			
1 Total 2+3	2 General Account	3 Separate Account	4 Funding Agreements Reserves Established
(In Millions)			
(a) Debt	\$ -	\$ -	\$ -
(b) Funding agreements	1,105	1,105	1,105
(c) Other	-	-	-
(d) Aggregate total	\$ 1,105	\$ 1,105	\$ 1,105

2. Prior Year-end:

December 31, 2014			
1 Total 2+3	2 General Account	3 Separate Account	4 Funding Agreements Reserves Established
(In Millions)			
(a) Debt	\$ -	\$ -	\$ -
(b) Funding agreements	701	701	701
(c) Other	-	-	-
(d) Aggregate total	\$ 701	\$ 701	\$ 701

b. Maximum Amount:

Nine Months Ended September 30,		
1 Total 2+3	2 General Account	3 Separate Account
(In Millions)		
1. Debt	\$ -	\$ -
2. Funding	1,105	1,105
3. Other	-	-
4. Aggregate	\$ 1,105	\$ 1,105

c. FHLB - Prepayment Obligations:

Does the company have prepayment obligations under the following arrangements (YES/NO)?	
1. Debt	N/A
2. Funding agreements	NO
3. Other	N/A

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

a. Defined Benefit Plan

(1) The Company provides multiple benefit plans including retirement plans and life and health benefits to employees, certain employees of unconsolidated subsidiaries, agents and retirees.

In August 2015, the Company communicated its intent to amend its welfare benefit plans for retired employees and agents effective January 1, 2016. Pursuant to the amendment, MassMutual will no longer provide medical coverage or prescription drug subsidies to retirees and their dependents through its self-insured medical plans. Instead, the Company will provide access to health insurance coverage for retirees and their dependents through a private insurance marketplace. Eligible retirees will be provided with a company-funded health reimbursement account, which can be used for health insurance premiums or eligible out-of-pocket medical expenses. The projected benefit obligation is expected to decrease approximately \$100 million as a result of this amendment. This decrease will be recorded as part of the fourth quarter remeasurement and amortized through net periodic benefit cost over the average remaining years of service of the eligible employees and agents.

In October 2014, the Society of Actuaries issued RP 2014 mortality tables, which were amended in October 2015. The Company is expected to adopt the new mortality tables as part of its fourth quarter 2015 remeasurement. In July 2015, the Company completed its decrement study, which included the mortality tables and an update to other key plan assumptions. As a result of this change, the projected benefit obligation as of December 31, 2015 is expected to increase approximately \$180 million.

(2-3) No change

NOTES TO FINANCIAL STATEMENTS

	Nine Months Ended September 30,					
	2015	2014	2015	2014	2015	2014
	Pension Benefits		Postretirement Benefits		Postemployment Benefits	
	(In Millions)					
(4) Components of net periodic benefit cost:						
a. Service cost	\$ 54	\$ 54	\$ 7	\$ 5	\$ 2	\$ 2
b. Interest cost	76	81	11	12	-	-
c. Expected return on plan assets	(116)	(107)	-	-	-	-
d. Transition asset or obligation	-	1	-	-	-	-
e. Gains and losses	49	47	2	-	-	-
f. Prior service cost or credit	3	5	3	4	-	-
g. Gain or loss recognized due to a settlement or curtailment	-	-	-	-	-	-
h. Total net periodic benefit cost	<u>\$ 66</u>	<u>\$ 81</u>	<u>\$ 23</u>	<u>\$ 21</u>	<u>\$ 2</u>	<u>\$ 2</u>

(5-21) No change

b-j. No change

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

(1-3) No change

(4) The Company received \$200 million and \$50 million of cash dividends, recorded in net investment income from MMHLLC in 2015 and 2014, respectively.

The Company contributed capital of \$12 million to MMHLLC through the nine months ended September 30, 2015. No capital contribution was made to MMHLLC through the nine months ended September 30, 2014.

(5-10) No change

(11) Surplus notes:

The following summarizes the surplus notes issued and outstanding as of September 30, 2015 (\$ in millions):

Date Issued	Interest Rate	Par Value (Face Amount of Notes)	Carrying Value of Note*	Interest And/Or Principal Paid Current Year	Total Interest And/Or Principal Paid	Unapproved Interest And/Or Principal	Date of Maturity
11/15/1993	7.625%	\$ 250	\$ 250	\$ 9	\$ 410	\$ 7	11/15/2023
03/01/1994	7.500%	100	100	8	161	1	03/01/2024
05/12/2003	5.625%	250	249	7	169	5	05/15/2033
06/01/2009	8.875%	750	742	33	399	22	06/01/2039
01/17/2012	5.375%	400	399	11	73	7	12/01/2041
04/15/2015	4.500%	500	491	-	-	10	04/15/2065
Total		\$ 2,250	\$ 2,231	\$ 68	\$ 1,212	\$ 52	

* Total agrees with Page 3, Line 32.

These notes are unsecured and subordinate to all present and future indebtedness of the Company, all policy claims and all prior claims against the Company as provided by the Massachusetts General Laws. The surplus notes are all held by bank custodians for unaffiliated investors. All issuances were approved by the Division.

All payments of interest and principal are subject to the prior approval of the Division. Anticipated sinking fund payments are due for the notes issued in 1993 and 1994 as follows: \$62 million in 2021, \$88 million in 2022, \$150 million in 2023 and \$50 million in 2024. There are no sinking fund requirements for the notes issued in 2003, 2009, 2012 or 2015. Scheduled interest on the notes issued in 1993 and 2003 is payable on May 15 and November 15 of each year to holders of record on the preceding May 1 or November 1, respectively. Scheduled interest on the note issued in 1994 is payable on March 1 and September 1 of each year to holders of record on the preceding February 15 or August 15, respectively. Scheduled interest on the notes issued in 2009 and 2012 is payable on June 1 and December 1 of each year to holders of record on the preceding May 15 and November 15, respectively. Scheduled interest on the note issued in 2015 is payable on April 15 and October 15 of each year to holders of record on the preceding April 1 and October 1, respectively. Interest expense is not recorded until approval for payment is received from the Division. As of September 30, 2015, the unapproved interest was \$52 million. Through September 30, 2015, the Company paid cumulative interest of \$1,212 million on surplus notes. Interest of \$68 million was approved and paid during the nine months ended September 30, 2015.

(12-13) No change

Note 14 – Liabilities, Contingencies and Assessments

a. Contingent commitments:

(1) In the normal course of business, the Company enters into letter of credit arrangements. As of September 30, 2015 and December 31, 2014, the Company had approximately \$161 million and \$63 million, respectively, of outstanding letter of credit arrangements. As of September 30, 2015 and December 31, 2014, the Company did not have any funding requests attributable to these letter of credit arrangements.

(2) Guarantees:

In the normal course of business the Company enters into guarantees related to employee and retirement benefits, the maintenance of subsidiary regulatory capital, surplus levels and liquidity sufficient to meet certain obligations, and other property lease arrangements. If the Company were to recognize a

NOTES TO FINANCIAL STATEMENTS

liability, the financial statement impact would be to recognize either an expense or an investment in a subsidiary, controlled, or affiliated (SCA) entity. The Company has no expectations for recoveries from third parties should these guarantees be triggered. As of September 30, 2015 and 2014, the Company had no outstanding obligations to any obligor attributable to these guarantees.

The following details contingent guarantees that were entered into on behalf of the Company's subsidiaries and affiliates for the nine months ended September 30, 2015.

(1)	(2)	(3)	(4)	(5)
Nature and circumstances of guarantee and key attributes, including date and duration of agreement	Liability recognition of guarantee. (Include amount recognized at inception. If no initial recognition, document exception allowed under SSAP No. 5R.)	Ultimate financial statement impact if action under the guarantee is required	Maximum potential amount of future payments (undiscounted) the guarantor could be required to make under the guarantee. If unable to develop an estimate, this should be specifically noted.	Current status of payment or performance risk of guarantee. Also provide additional discussion as warranted
The Company issued a construction loan for a real estate development project. The land on which the property is to be built is subject to a ground lease. In conjunction with issuing this construction loan, the Company has also issued a completion guarantee to the land owner that pays only in the event the project is not completed. The project is expected to be completed by June 2019.	-	If the Company were to recognize a liability, the financial statement impact would be to recognize an expense.	\$350 million	-
Total	-	-	\$350 million	-

- b. Assessments - No change
- c. Gain contingencies - No change
- d. Claims related to extra contractual obligations - No change
- e. All other contingencies:

The Company is involved in litigation arising in the normal course of business, which seeks compensatory and punitive damages and equitable remedies. 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 results of operations for a particular period depending upon, among other factors, the size of the loss and the level of the Company's results of operations for the period.

In 2008, the Company and MMHLLC were named as defendants in several lawsuits filed in federal and state courts in Colorado, Massachusetts, New Mexico, New York and Washington 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. Certain of these lawsuits also named Tremont Group Holdings, Inc. (Tremont) and certain of its affiliates, and certain of their respective current or former officers and directors, as defendants. The plaintiffs alleged a variety of state law and federal security claims against the defendants. In the first three quarters of 2015, the Company entered into settlement agreements and paid \$37 million in connection with these agreements. The Company recorded the loss as a change in net unrealized capital losses, net of tax, in the Condensed Statutory Statements of Changes in Surplus.

In 2009, several lawsuits were filed as putative class actions and later consolidated before the U.S. District Court for the District of Colorado in connection with the investment performance of Oppenheimer Rochester California Municipal Fund (the California Fund Suit). This fund was advised by OppenheimerFunds, Inc. (OFI) and distributed by its subsidiary OppenheimerFunds Distributor, Inc. (OFDI). The plaintiffs in the California Fund Suit claim against the Company, OFI, OFDI and certain present and former trustees and officers of the fund under federal securities laws and allege, among other things, the disclosure documents of the fund contained misrepresentations and omissions, that the investment policies of the fund were not followed, and that the fund and the other defendants violated federal securities laws and regulations and certain state laws. Plaintiffs in the California Fund Suit filed an amended complaint and defendants filed a motion to dismiss. In 2011, the court issued an order that granted in part and denied in part the defendants' motion to dismiss. In March 2015, the court granted the plaintiffs' motion to certify a class and to appoint class representatives and class counsel. In May 2015, the U.S. Court of Appeals for the Tenth Circuit issued an order vacating the district court's class certification order and remanded the matter to the district court for further proceedings. The district court subsequently held evidentiary hearings in July 2015, to determine whether class certification is appropriate in the California Fund Suit. The defendants believe they have substantial defenses and will continue to vigorously defend themselves 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 suit.

NOTES TO FINANCIAL STATEMENTS

In 2009, the Company was named as a defendant in a lawsuit 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 parties have completed discovery and are preparing for trial. In May 2015, the plaintiff voluntarily dismissed its complaint and refiled the case. 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 suit.

In 2010, Christina Chavez (Chavez) filed a putative class action complaint against the Company. 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. In June 2014, the parties participated in a mediation of their dispute, which did not result in a settlement. In July 2015, the judge certified a subclass consisting of one of twenty-six potential term products at issue in this case. All remaining subclasses were dismissed without prejudice. 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 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. In June 2014, the Company recorded a liability for the loss paid in 2015 in connection with this lawsuit, which did not have a significant impact on the Company.

In 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 court denied the Company's motion to dismiss and the parties are engaged in active discovery. The Company believes that 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 2013, seven participants in the MassMutual Thrift Plan (the Plan) filed a putative class action complaint in the U.S. District Court for the District of Massachusetts. The complaint alleges, among other things, that the Company, the Investment Fiduciary Committee, the Plan Administrative Committee and individually named "fiduciaries" breached their duties by allowing the Plan to pay excessive fees and by engaging in self-dealing. The Company believes that 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.

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 results of operations for the period.

Note 15 – Leases – No change

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

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

a. Transfers of receivables reported as sales – No change

b. Transfer and Servicing of Financial Assets:

(1) No change

(2) The Company did not have any servicing assets or liabilities in 2015 or 2014.

(3) No change

(4) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2015 or 2014.

(5-7) No change

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, 2015 that were reacquired within 30 days of the sale date.

NOTES TO FINANCIAL STATEMENTS

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

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

Note 20 – Fair Value Measurements

- a. Fair value is defined as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The authoritative guidance around fair value establishes a measurement framework that includes a hierarchy used to classify the inputs used in measuring fair value. The hierarchy prioritizes the inputs to valuation techniques into three levels. Each level reflects a unique description of the inputs that are significant to the fair value measurements. The levels of the fair value hierarchy are as follows:

Level 1 – Observable inputs in the form of quoted prices for identical instruments in active markets.

Level 2 – Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active or other inputs that are observable or can be derived from observable market data for substantially the full term of the assets or liabilities.

Level 3 – One or more unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using internal models, as well as instruments for which the determination of fair value requires significant management judgment or estimation.

When available, the Company generally uses unadjusted quoted market prices from independent sources to determine the fair value of investments, and classifies such items within Level 1 of the fair value hierarchy. If quoted prices are not available, prices are derived from observable market data for similar assets in an active market or obtained directly from brokers for identical assets traded in inactive markets. Investments that are priced using these inputs are classified within Level 2 of the fair value hierarchy. When some of the necessary observable inputs are unavailable, fair value is based upon internally developed models. These models use inputs not directly observable or correlated with observable market data. Typical inputs, which are integrated in the Company's internal discounted cash flow models and discounted earnings models include, but are not limited to, issuer spreads derived from internal credit ratings and benchmark yields such as LIBOR, cash flow estimates and earnings before interest, taxes, depreciation and amortization estimates. Investments that are priced with such unobservable inputs are classified within Level 3 of the fair value hierarchy.

The Company has established and maintained policies and guidelines that govern its valuation methodologies and their consistent application. These policies and guidelines address the use of inputs, price source hierarchies and provide controls around the valuation processes. These controls include appropriate review and analysis of prices against market activity or indicators for reasonableness, approval of price source changes, price overrides, methodology changes and classification of fair value hierarchy levels. The valuation policies and guidelines are reviewed and updated as appropriate.

Annually, the Company reviews the primary pricing vendor to validate that the inputs used in that vendor's pricing process are deemed to be market observable as defined above. While the Company was not provided access to proprietary models of the vendor, the reviews have included on-site walk-throughs of the pricing process, methodologies and control procedures for each asset class and level for which prices are provided. The review also included an examination of the underlying inputs and assumptions for a sample of individual securities across asset classes. In addition, the Company and its pricing vendors have an established challenge process in place for all security valuations, which facilitates identification and resolution of prices that fall outside expected ranges. The Company believes that the prices received from the pricing vendors are representative of prices that would be received to sell the assets at the applicable measurement date (exit prices) and are classified appropriately in the hierarchy.

The fair value of group annuity contracts and other deposits is determined by multiplying the book value of the contract by an average market value adjustment factor. The market value adjustment factor is directly related to the difference between the book value of client liabilities and the present value of installment payments discounted at current market value yields. The market value yield is measured by the Barclay's Aggregate Bond Index, subject to certain adjustments, and the installment period is equivalent to the duration of the Company's invested asset portfolio.

The fair value of individual annuity and supplementary contracts is determined using one of several methods based on the specific contract type. For short-term contracts, generally less than 30 days, the fair value is assumed to be the book value. For contracts with longer durations, guaranteed interest contracts and investment-type contracts, the fair value is determined by calculating the present value of future cash flows discounted at current market interest rates, the risk-free rate or a current pricing yield curve based on pricing assumptions using assets of a comparable corporate bond quality. Annuities receiving dividends are accumulated at the average minimum guaranteed rate and discounted at the risk-free rate. All others are valued using cash flow projections from the Company's asset-liability management analysis.

NOTES TO FINANCIAL STATEMENTS

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

	September 30, 2015			
	Level 1	Level 2	Level 3	Total
	(In Millions)			
Financial assets:				
Bonds:				
Special revenue	\$ -	\$ 1	\$ -	\$ 1
Industrial and miscellaneous	-	22	25	47
Parent, subsidiaries and affiliates	-	44	46	90
Preferred stocks	-	-	3	3
Common stock - subsidiaries and affiliates	486	110	54	650
Common stock - unaffiliated	491	424	204	1,119
Separate account assets	37,830	20,047	700	58,577
Derivatives:				
Interest rate swaps	-	9,025	-	9,025
Options	-	689	-	689
Currency swaps	-	456	-	456
Forward contracts	-	39	-	39
Credit default swaps	-	2	-	2
Total financial assets carried at fair value	\$ 38,807	\$ 30,859	\$ 1,032	\$ 70,698
Financial liabilities:				
Derivatives:				
Interest rate swaps	\$ -	\$ 6,857	\$ -	\$ 6,857
Options	-	9	-	9
Currency swaps	-	14	-	14
Forward contracts	-	6	-	6
Credit default swaps	-	3	-	3
Total financial liabilities carried at fair value	\$ -	\$ 6,889	\$ -	\$ 6,889

For the nine months ended September 30, 2015, there were no significant transfers between Level 1 and Level 2.

NOTES TO FINANCIAL STATEMENTS

	December 31, 2014			
	Level 1	Level 2	Level 3	Total
	(In Millions)			
Financial assets:				
Bonds:				
All other governments	\$ -	\$ 4	\$ -	\$ 4
Industrial and miscellaneous	-	33	109	142
Parent, subsidiaries and affiliates	-	10	79	89
Preferred stocks	-	-	3	3
Common stock - subsidiaries and affiliates	515	117	81	713
Common stock - unaffiliated	587	441	160	1,188
Separate account assets	40,104	19,680	600	60,384
Derivatives:				
Interest rate swaps	-	7,688	-	7,688
Options	-	524	-	524
Currency swaps	-	233	-	233
Forward contracts	-	70	-	70
Credit default swaps	-	-	-	-
Total financial assets carried at fair value	\$ 41,206	\$ 28,800	\$ 1,032	\$ 71,038
Financial liabilities:				
Derivatives:				
Interest rate swaps	\$ -	\$ 5,359	\$ -	\$ 5,359
Options	-	9	-	9
Currency swaps	-	45	-	45
Forward contracts	-	3	-	3
Credit default swaps	-	5	-	5
Total financial liabilities carried at fair value	\$ -	\$ 5,421	\$ -	\$ 5,421

For the year ended December 31, 2014, 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 01/01/2015	Transfers ⁽¹⁾		Gains (Losses) in Net Income	Gains (Losses) in Surplus		Purchases	Issuances	Sales	Settlements	Balance as of 09/30/2015
		In	Out		Surplus	Losses					
(In Millions)											
Financial assets:											
Bonds:											
Industrial and miscellaneous	\$ 109	\$ -	\$ (57)	\$ (24)	\$ 3	\$ -	\$ 3	\$ (4)	\$ (5)	\$ (5)	\$ 25
Parent, subsidiaries and affiliates	79	-	(28)	-	(5)	-	-	-	-	-	46
Preferred stock	3	-	(1)	-	-	1	-	-	-	-	3
Common stock - subsidiaries and affiliates	81	4	-	7	(5)	460	26	(493)	(26)	(26)	54
Common stock - unaffiliated	160	-	(5)	4	14	37	-	(6)	-	-	204
Separate account assets	600	-	-	2	-	149	-	(51)	-	-	700
Total financial assets	\$ 1,032	\$ 4	\$ (91)	\$ (11)	\$ 7	\$ 647	\$ 29	\$ (554)	\$ (31)	\$ (31)	\$ 1,032

⁽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. It, also, includes 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 a change in lower of cost or market carrying basis.

NOTES TO FINANCIAL STATEMENTS

	Balance		Gains		Gains				Balance	
	as of	Transfers ⁽¹⁾	(Losses) in	(Losses) in	Purchases	Issuances	Sales	Settlements ⁽²⁾	as of	
	01/01/2014	In	Out	Net Income	Surplus					12/31/2014
(In Millions)										
Financial assets:										
Bonds:										
Industrial and miscellaneous	\$ 23	\$ -	\$ (13)	\$ -	\$ (13)	\$ 3	\$ 117	\$ -	\$ (8)	\$ 109
Parent, subsidiaries, and affiliates	-	53	-	-	(6)	20	96	-	(84)	79
Preferred Stock	1	-	(1)	-	-	3	-	-	-	3
Common stock - subsidiaries										
and affiliates	35	-	-	(1)	(3)	103	2	(34)	(21)	81
Common stock - unaffiliated	185	3	-	(71)	40	9	4	(4)	(6)	160
Separate account assets	490	-	-	82	-	238	-	(320)	110	600
Total financial assets	\$ 734	\$ 56	\$ (14)	\$ 10	\$ 18	\$ 376	\$ 219	\$ (358)	\$ (9)	\$ 1,032

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

3. The Company reviews the fair value hierarchy classifications at each reporting period. Overall, reclassifications between levels occur when there are changes in the observability of inputs and market activity used in the valuation of a financial asset or liability. Such reclassifications are reported as transfers between levels at the beginning fair value for the reporting period in which the changes occur. Given the types of assets classified as Level 1 (primarily equity securities and mutual fund investments), transfers between Level 1 and Level 2 measurement categories are expected to be infrequent. Transfers into and out of Level 3 are summarized in the schedule of changes in Level 3 assets and liabilities.

4. Valuation Techniques and Inputs

The Company determines the fair value of its investments using primarily the market approach or the income approach. The use of quoted prices for identical assets and matrix pricing or other similar techniques are examples of market approaches, while the use of discounted cash flow methodologies is an example of the income approach. The Company attempts to maximize the use of observable inputs and minimize the use of unobservable inputs in selecting whether the market or the income approach is used.

A description of the significant valuation techniques and inputs to the determination of estimated fair value for the more significant asset and liability classes measured at fair value on a recurring basis and categorized within Level 2 and Level 3 of the fair value hierarchy is as follows:

Separate account assets - These assets primarily include bonds (industrial and miscellaneous; U.S. government and agencies), and derivatives. Their fair values are determined as follows:

Bonds (Industrial and miscellaneous) - These securities are principally valued using the market or the income approaches. Level 2 valuations are based primarily on quoted prices in markets that are not active, broker quotes, matrix pricing or other similar techniques that use standard market observable inputs such as benchmark yields, spreads versus benchmark yields, new issuances, issuer rating, duration, and trades of identical or comparable securities. Privately placed securities are valued using discounted cash flow models using standard market observable inputs, and inputs derived from, or corroborated by, market observable data including market yield curve, duration, call provisions, observable prices and spreads for similar publicly traded or privately traded issues that incorporate the credit quality and industry sector of the issuer. This level also includes securities priced by independent pricing services that use observable inputs. Valuations based on matrix pricing or other similar techniques that utilize significant unobservable inputs or inputs that cannot be derived principally from, or corroborated by, observable market data, including adjustments for illiquidity, delta spread adjustments or spreads to reflect industry trends or specific credit-related issues are classified as Level 3. In addition, inputs including quoted prices for identical or similar securities that are less liquid and based on lower levels of trading activity than securities classified in Level 2 are classified as Level 3.

Bonds (U.S. government and agencies) - These securities are principally valued using the market approach. Level 2 valuations are based primarily on quoted prices in markets that are not active, or using matrix pricing or other similar techniques using standard market observable inputs such as the benchmark U.S. Treasury yield curve, the spreads versus the U.S. Treasury yield curve for the identical security and comparable securities that are actively traded.

Derivative assets and liabilities - These financial instruments are primarily valued using the market approach. The estimated fair value of derivatives is based primarily upon quotations obtained from counterparties and independent sources, such as quoted market values received from brokers. These quotations are compared to internally derived prices and a price challenge is lodged with the counterparties and an independent source when a significant difference cannot be explained by appropriate adjustments to the internal model. When quoted market values are not reliable or available, the value is based upon an internal valuation process using market observable inputs that other market participants would use. Significant inputs to the valuation of derivative financial instruments include overnight index swaps (OIS) and LIBOR basis curves, interest rate volatility, swap yield curve, currency spot rates, cross currency basis curves and dividend yields. Due to the observability of the significant inputs to these fair value measurements, they are classified as Level 2.

The use of different assumptions or valuation methodologies may have a material impact on the estimated fair value amounts. For the periods presented, there were no significant changes to the Company's valuation techniques.

NOTES TO FINANCIAL STATEMENTS

5. Derivative assets and liabilities fair value disclosures on a gross basis are included in paragraph 1 above. Since there are no derivative assets or liabilities classified in Level 3, the reconciliation disclosures required under paragraphs 2 through 4 are not applicable.
- b. The Company provides additional fair value information in Notes 1, 5, 8, 21, 32 and 34.
- c. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

	September 30, 2015					Not Practicable (Carrying Value)
	Aggregate	Admitted	Level 1	Level 2	Level 3	
	Fair Value	Assets	(In Millions)			
Financial assets:						
Bonds:						
U. S. government and agencies	\$ 8,646	\$ 8,024	\$ -	\$ 8,641	\$ 5	\$ -
All other governments	735	726	-	662	73	-
States, territories and possessions	820	768	-	820	-	-
Political subdivisions	497	463	-	497	-	-
Special revenue	6,424	5,668	-	6,369	55	-
Industrial and miscellaneous	58,636	57,326	-	35,903	22,733	-
Parent, subsidiaries and affiliates	5,889	5,667	-	720	5,169	-
Preferred stocks	594	589	1	46	547	-
Common stocks - subsidiaries and affiliates ⁽¹⁾	650	650	486	110	54	-
Common stocks - unaffiliated	1,119	1,119	491	424	204	-
Mortgage loans - commercial	20,092	19,402	-	-	20,092	-
Mortgage loans - residential	1,824	1,849	-	-	1,824	-
Cash, cash equivalents and short-term investments	2,781	2,781	233	2,548	-	-
Separate account assets	58,577	58,577	37,830	20,047	700	-
Derivatives:						
Interest rate swaps	9,708	9,025	-	9,708	-	-
Options	689	689	-	689	-	-
Currency swaps	456	456	-	456	-	-
Forward contracts	39	39	-	39	-	-
Credit default swaps	8	23	-	8	-	-
Financial liabilities:						
Commercial paper and other borrowed money	272	272	-	250	22	-
Repurchase agreements	5,149	5,149	-	5,149	-	-
Guaranteed interest contracts	4,948	4,905	-	-	4,948	-
Group annuity contracts and other deposits	18,449	17,694	-	-	18,449	-
Individual annuity contracts	7,991	6,570	-	-	7,991	-
Supplementary contracts	1,099	1,098	-	-	1,099	-
Derivatives:						
Interest rate swaps	6,885	6,857	-	6,885	-	-
Options	9	9	-	9	-	-
Currency swaps	14	14	-	14	-	-
Forward contracts	6	6	-	6	-	-
Credit default swaps	11	7	-	11	-	-

⁽¹⁾ Common stocks - affiliates do not include unconsolidated subsidiaries, which had a statutory carrying value of \$7,519 million.

NOTES TO FINANCIAL STATEMENTS

	December 31, 2014					Not Practicable (Carrying Value)
	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	
	(In Millions)					
Financial assets:						
Bonds:						
U. S. government and agencies	\$ 8,206	\$ 7,395	\$ -	\$ 8,199	\$ 7	\$ -
All other governments	560	526	-	486	74	-
States, territories and possessions	1,884	1,735	-	1,868	16	-
Political subdivisions	540	493	-	517	23	-
Special revenue	5,384	4,562	-	5,266	118	-
Industrial and miscellaneous	57,323	54,482	-	36,313	21,010	-
Parent, subsidiaries and affiliates	5,779	5,526	-	646	5,133	-
Preferred stocks	531	525	1	14	516	-
Common stock - subsidiaries and affiliates ⁽¹⁾	713	713	515	117	81	-
Common stock - unaffiliated	1,188	1,188	587	441	160	-
Mortgage loans - commercial	18,204	17,585	-	-	18,204	-
Mortgage loans - residential	1,738	1,772	-	-	1,738	-
Cash, cash equivalents and short-term investments	1,880	1,880	303	1,577	-	-
Separate account assets	60,384	60,384	40,104	19,680	600	-
Derivatives:						
Interest rate swaps	8,136	7,688	-	8,136	-	-
Options	524	524	-	524	-	-
Currency swaps	233	233	-	233	-	-
Forward contracts	70	70	-	70	-	-
Credit default swaps	18	16	-	18	-	-
Financial liabilities:						
Commercial paper	268	268	-	250	18	-
Repurchase agreements	4,658	4,658	-	4,658	-	-
Guaranteed investment contracts	4,301	4,218	-	-	4,301	-
Group annuity contracts and other deposits	18,446	17,454	-	-	18,446	-
Individual annuity contracts	7,365	6,394	-	-	7,365	-
Supplementary contracts	1,041	1,040	-	-	1,041	-
Derivatives:						
Interest rate swaps	5,368	5,359	-	5,368	-	-
Options	9	9	-	9	-	-
Currency swaps	45	45	-	45	-	-
Forward contracts	3	3	-	3	-	-
Credit default swaps	7	8	-	7	-	-

⁽¹⁾ Does not include unconsolidated subsidiaries, which had statutory carrying values of \$7,227 million.

- d. For the nine months ended September 30, 2015, the Company had no investments where it was not practicable to estimate fair value.

Note 21 – Other Items

- a. Extraordinary items – No change
- b. Troubled debt restructuring – No change
- c. Other disclosures and unusual items:

Common stocks of unconsolidated subsidiaries, primarily MMHLLC, are accounted for using the statutory equity method. The Company accounts for the value of MMHLLC at its underlying U.S. generally accepted accounting principles equity value adjusted to remove certain nonadmitted and intangible assets, as well as a portion of its noncontrolling interests (NCI) and appropriated retained earnings, 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 \$2,562 million and \$2,409 million as of September 30, 2015 and December 31, 2014, respectively. The current fair value of MMHLLC remains significantly greater than its statutory carrying value.

In 2015, the Company entered into agreements to assume liabilities associated with certain guaranteed interest contracts. The transactions closed in the third quarter of 2015 and resulted in an increase in the Company's invested assets and liabilities for deposit-type contracts of approximately \$685 million with no impact on surplus.

Business risks

The Company operates in a business environment subject to various risks and uncertainties. Such risks and uncertainties include, but are not limited to, currency exchange risk, interest rate risk and credit risk. Interest rate risk is the potential for interest rates to change, which can cause fluctuations in the value of investments and amounts due to policyholders. To the extent that fluctuations in interest rates cause the duration of assets and liabilities to differ, the Company mitigates its exposure to this risk by, among other things, asset/liability management techniques that account for the cash flow characteristics of the assets and liabilities. This quarterly risks and uncertainties disclosure should be read in conjunction with the statutory disclosure in the Company's 2014 annual financial statements.

NOTES TO FINANCIAL STATEMENTS

Currency exchange risk

The Company has currency risk due to its non-U.S. dollar investments and medium-term notes along with its indirect international operations. The Company mitigates currency risk through the use of cross-currency swaps and forward contracts. Cross-currency swaps are used to minimize currency risk for certain non-U.S. dollar assets and liabilities through a prespecified exchange of interest and principal. Forward contracts are used to hedge movements in exchange rates.

Investment and interest rate risks

Investment earnings can be influenced by a number of factors including changes in interest rates, credit spreads, equity markets, portfolio asset allocation and general economic conditions. The Company employs a rigorous asset/liability management process to help mitigate the economic impacts of various investment risks, in particular interest rate risk.

The levels of U.S. interest rates are influenced by U.S. monetary policies and by the relative attractiveness of U.S. markets to investors versus other global markets. As interest rates increase, certain debt securities may experience slower amortization or 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 debt securities may experience accelerated amortization and prepayment speeds than 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

Credit risk is the risk that issuers of investments owned by the Company may default or that other parties may not be able to pay amounts due to the Company. The Company manages its investments to limit credit risk by diversifying its portfolio among various security types and industry sectors as well as purchasing credit default swaps to transfer some of the risk.

The Company has investments in European debt. Underlying concerns over the macro-economic outlook and debt burden of certain parts of the Eurozone, and other countries remain, but the Company does not have significant exposure to the debt of companies and governments in these countries. With a weaker economic outlook in certain parts of the world it may lead to an increase in reported default rates or contagion to stock or other markets around the world. These events could have impacts on the broader environment resulting in volatility in other world economies and financial markets.

The Company has investment exposure to energy and certain other commodity sectors. With the continued weaker economic outlook in these sectors, there may be an increase in reported default rates or potential downgrades to the ratings of companies or sovereignties exposed to these sectors. The Company monitors its investments in these sectors and assesses the liquidity and financial viability of its investments. If the Company chooses to sell the investment prior to maturity or market recovery, these investments may yield a return that is less than the Company otherwise would have been able to realize.

- d. Business interruption insurance recoveries – No change
- e. State transferrable tax credits – No change
- f. Subprime mortgage related risk exposure:
 - (1) No change
 - (2) No change
 - (3) 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:

	September 30, 2015			Nine Months Ended September 30, 2015
	Actual Cost	Carrying Value	Fair Value	OTTI
(In Millions)				
Alt-A:				
a. Residential mortgage-backed securities	\$ 626	\$ 459	\$ 555	\$ -
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	-	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	49	35	42	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 675</u>	<u>\$ 494</u>	<u>\$ 597</u>	<u>\$ -</u>

NOTES TO FINANCIAL STATEMENTS

	Nine Months Ended			
	September 30, 2015			September 30,
	Actual	Carrying	Fair	2015
Subprime:	Cost	Value	Value	OTTI
(In Millions)				
a. Residential mortgage-backed securities	\$ 546	\$ 440	\$ 510	\$ -
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	3	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	28	22	24	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 577</u>	<u>\$ 462</u>	<u>\$ 534</u>	<u>\$ -</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.

	Year Ended			
	December 31, 2014			December 31,
	Actual	Carrying	Fair	2014
Alt-A:	Cost	Value	Value	OTTI
(In Millions)				
a. Residential mortgage-backed securities	\$ 725	\$ 515	\$ 631	\$ -
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	-	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	55	38	47	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 780</u>	<u>\$ 553</u>	<u>\$ 678</u>	<u>\$ -</u>

	Year Ended			
	December 31, 2014			December 31,
	Actual	Carrying	Fair	2014
Subprime:	Cost	Value	Value	OTTI
(In Millions)				
a. Residential mortgage-backed securities	\$ 621	\$ 501	\$ 579	\$ -
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	3	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs *	31	24	26	-
f. Other assets	-	-	-	-
g. Total	<u>\$ 655</u>	<u>\$ 525</u>	<u>\$ 605</u>	<u>\$ -</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.

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

g. Retained asset accounts – No change

Note 22 – Events Subsequent

Management of the Company has evaluated subsequent events through November 11, 2015, the date the financial statements were available to be issued. 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 change
 Section 2 - Ceded Reinsurance Report - Part A – No change
 Section 3 - Ceded Reinsurance Report - Part B – No change
 b-d. No change

Note 24 – Retrospectively Rated Contracts and Contracts Subject to Redetermination

The Company does not issue group health insurance and therefore did not issue retrospectively rated contracts or contracts subject to redetermination.

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

There was no increase to reserves in 2015 for incurred losses and loss adjustment expenses attributable to insured events of prior years, which were considered corrections of prior year errors.

NOTES TO FINANCIAL STATEMENTS

Note 26 – Intercompany Pooling Arrangements – No change

Note 27 – Structured Settlements – No change

Note 28 – Health Care Receivables – No change

Note 29 – Participating Policies – No change

Note 30 – Premium Deficiency Reserves – No change

Note 31 – Reserves for Life Contracts and Annuity Contracts – No change

Note 32 – Analysis of Annuity Actuarial Reserves and Deposit Liabilities by Withdrawal Characteristics – No change

Note 33 – Premium and Annuity Considerations Deferred and Uncollected – No change

Note 34 – Separate Accounts – No change

Note 35 – Loss/Claim Adjustment Expenses – No change

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 [X] No []
- 2.2 If yes, date of change: 04/08/2015
- 3.1 Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer? Yes [X] No []
If yes, complete Schedule Y, Parts 1 and 1A.
- 3.2 Have there been any substantial changes in the organizational chart since the prior quarter end? Yes [] No [X]
- 3.3 If the response to 3.2 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? Yes [] No [X] N/A []
If yes, attach an explanation.
- 6.1 State as of what date the latest financial examination of the reporting entity was made or is being made. 12/31/2014
- 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
Babson Capital Securities, LLC	Boston, MA				YES
Baring Asset Management (Asia) Limited	Hong Kong				YES
Baring International Investment Limited	London, UK				YES
MML Distributors, LLC	Enfield, CT				YES
MML Investment Advisers, LLC	Enfield, CT				YES
MML Investors Services, LLC	Springfield, MA				YES
MML Strategic Distributors, LLC	Springfield, MA				YES
MMLISI Financial Alliances, LLC	Springfield, MA				YES
OppenheimerFunds Distributor, Inc.	New York, NY				YES
Society of Grownups, LLC	Springfield, MA				YES
The MassMutual Trust Company, FSB	Enfield, CT		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? Yes No
 (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.
- 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 No
 9.21 If the response to 9.2 is Yes, provide information related to amendment(s).
 The Code was revised in January 2015. The revisions to the Code 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
 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 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 No
 11.2 If yes, give full and complete information relating thereto:
 Repurchase agreements, Letter stock or securities restricted as to sale - excluding FHLB Capital Stock, FHLB Capital Stock, On deposit with states, pledged as collateral - excluding collateral pledged to an FHLB and Pledged as collateral to FHLB - including assets backing funding agreements
12. Amount of real estate and mortgages held in other invested assets in Schedule BA: \$2,040,279,564
 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 No
 14.2 If yes, please complete the following:
- | | 1
Prior Year-End
Book/Adjusted
Carrying Value | 2
Current Quarter
Book/Adjusted
Carrying Value |
|---|--|---|
| 14.21 Bonds | \$ 5,525,755,051 | \$ 5,667,475,555 |
| 14.22 Preferred Stock | \$ | \$ |
| 14.23 Common Stock | \$ 7,243,083,433 | \$ 7,641,938,734 |
| 14.24 Short-Term Investments | \$ | \$ |
| 14.25 Mortgage Loans on Real Estate | \$ | \$ |
| 14.26 All Other | \$ 4,192,597,007 | \$ 4,408,682,303 |
| 14.27 Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26) | \$ 16,961,435,491 | \$ 17,718,096,592 |
| 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 No
 15.2 If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? Yes No
 If no, attach a description with this statement.

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company
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
Citibank, N.A.	333 West 34th Street, New York, NY 10001
JP Chase Manhattan Bank	1 Chase Manhattan Plaza, 19th Floor, New York, NY 10005
Northern Trust	50 South LaSalle Street, Chicago, IL 60603
State Street Global Services	801 Pennsylvania Avenue, Kansas City, MO 64105

- 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
110363	OFI Institutional Asset Management, Inc.	Two World Financial Center, 225 Liberty Street, New York, NY 10281-1008
106006	Babson Capital Management, LLC	1500 Main Street, Springfield, MA 01115
104517	Franklin Advisers, Inc.	One Franklin Parkway, San Mateo, CA 94403-1906
123711	Tortoise Capital Advisors, L.L.C.	11550 Ash Street, Suite 300, Leawood, KS 66211
104559	PIMCO- Pacific Investment Management Company LLC	840 Newport Center Drive, Suite 100, Newport Beach, CA 92660
107926	Earnest Partners LLC	1180 Peachtree St NE Suite 2300, Atlanta, GA 30309
141037	KA Fund Advisors LLC	811 Main Street, 14th Floor, Houston, TX 77002
162754	IFM Investors Pty Ltd	Level 29 Casselden, 2 Lonsdale Street, Melbourne VIC 3000
185402	Ashmore Investment Management Limited	61 Aldwych, London WC2B 4AE

- 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 9/30/2015, 62 issues for 45 issuers did not meet the filing requirements of the Purpose 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 total \$407,393,663 or .46% 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	\$10,053,300
1.12 Residential Mortgages	\$1,849,013,664
1.13 Commercial Mortgages	\$19,391,535,839
1.14 Total Mortgages in Good Standing	\$21,250,602,803
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)	\$21,250,602,803
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	73.107 %
2.2 A&H cost containment percent	1.600 %
2.3 A&H expense percent excluding cost containment expenses	71.507 %
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	\$

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE S - CEDED REINSURANCE

Showing All New Reinsurance Treaties - Current Year to Date

1	2	3	4	5	6	7	8	9
NAIC Company Code	ID Number	Effective Date	Name of Reinsurer	Domiciliary Jurisdiction	Type of Reinsurance Ceded	Type of Reinsurer	Certified Reinsurer Rating (1 through 6)	Effective Date of Certified Reinsurer Rating
.93572	43-1235868	.03/15/2015	RGA Reinsurance Co. (GAQ1)	MO	.CO/1	Authorized		
.93572	43-1235868	.03/15/2015	RGA Reinsurance Co. (GAQ2)	MO	.CO/1	Authorized		
.93572	43-1235868	.03/15/2015	RGA Reinsurance Co. (GAQ3)	MO	.CO/1	Authorized		
.97071	13-3126819	.03/15/2015	SCOR Global Life USA Reins Co (SUQ1)	DE	.CO/1	Authorized		
.97071	13-3126819	.03/15/2015	SCOR Global Life USA Reins Co (SUQ2)	DE	.CO/1	Authorized		
.97071	13-3126819	.03/15/2015	SCOR Global Life USA Reins Co (SUQ3)	DE	.CO/1	Authorized		
.82627	06-0839705	.03/15/2015	Swiss Re Life & Health America Inc. (SRQ4)	MO	.CO/1	Authorized		

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>
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
CML Special Situations Investor LLC	None		Delaware
MML Mezzanine Investor L, LLC	04-1590850		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		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		Connecticut
MMC Equipment Finance LLC	04-1590850		Delaware
MassMutual Asset Finance LLC*	26-0073611		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
Pioneers Gate LLC	45-2738137		Delaware
MSC Holding Company, LLC	45-4376777		Delaware
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
MassMutual Holding LLC	04-2854319		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MassMutual Ventures LLC	47-1296410		Delaware
MM Caerulus Holdco US LLC	None		Delaware
MM Rothesay Holdco US 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

*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 Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Asia Investors Ltd.	None		Hong Kong, Special Administrative Region of China
MassMutual Guardian Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Insurance Consultants Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Services Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Trustees Limited	None		Hong Kong, Special Administrative Region of China
Protective Capital (International) Limited	98-0610331		Hong Kong, Special Administrative Region of China
MassMutual Life Insurance Company	None		Japan
MassMutual Internacional (Chile) SpA	98-1033127		Chile
MM Asset Management Holding LLC	45-4000072		Delaware
Babson Capital Management LLC	51-0504477		Delaware
Babson Capital Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
Babson Capital Securities LLC	04-3238351		Delaware
Babson Capital Guernsey Limited	98-0437588		Guernsey
Babson Capital Management (UK) Limited	98-0432153		United Kingdom
Babson GPC GP S.à.r.l.	None		Luxembourg
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	98-1012393		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Babson European Direct Lending 1 GP LLP	None		United Kingdom
Babson Capital Management (Japan) KK	None		Japan
Cornerstone Real Estate Advisers LLC	55-0878489		Delaware
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
CREAE AIFM LLP	None		United Kingdom
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 Real Estate Advisers GmbH	98-1194368		Germany
Babson Capital Management (Australia) Holding Company Pty Ltd.	None		Australia
Babson Capital Management (Australia) Pty Ltd.	98-0457456		Australia
Babson Capital Cornerstone Asia Limited	None		Hong Kong, Special Administrative Region of China
Wood Creek Capital Management LLC	04-1590850		Delaware
Wood Creek Index Company, LLC	26-3115362		Delaware
Milestone Acquisition Holding, LLC.	47-3055009		Delaware

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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>
Alchemy Copyrights, LLC.	47-2642354		Delaware
Red Lake Ventures, LLC	46-5460309		Delaware
Teaktree Acquisition, LLC	None		Delaware
Tamiami Citrus, LLC	None		Delaware
Sweet Tree Holdings I, LLC	46-3123110		Delaware
U.S. Trailer Holdings II LLC	46-2104352		Delaware
U.S. WIG Holdings, LP	46-1500495		Delaware
WC Aircraft Holdings US II, LLC	46-3378584		Delaware
Wood Creek Aircraft Holding I, LP	None		Cayman Islands
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 TERO Management LLC	None		Delaware
Babson Investment Grade CLO Debt Management LLC	None		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
SDCOS 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 IV LLC	80-0920285		Delaware
Mezzco Australia LLC	90-0666326		Delaware
Mezzco Australia II LLC	None		Delaware
Somerset Special Opportunities 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
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

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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>
Settlement Agent LLC	90-0874510		Delaware
Tremont (Bermuda) Limited	None		Bermuda
MassMutual Baring Holding LLC	04-1590850		Delaware
Baring North America 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, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong, Special Administrative Region of China
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 Switzerland Sàrl	None		Switzerland
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Baring France SAS	98-0497550		France
Baring Fund Managers Limited	98-0457586		United Kingdom
Baring Pension Trustees Limited	98-0457574		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
Baring Investments (UK) Limited	None		United Kingdom
First Mercantile Trust Company	62-0951563		Tennessee
Haven Life Insurance Agency, LLC	46-2252944		Delaware
MML Management Corporation	04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts
Society of Grownups, LLC	47-1466022		Massachusetts
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
Other Affiliates:			
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
100 w. 3 rd Street LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	04-1590850		Delaware
300 South Tryon LLC	04-1590850		Delaware

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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>
54 West Capital LLC	20-3887968		Delaware
Alexandria Towers Investors LLC	16-1720387		Delaware
Cambridge Hotel, LLC	06-1614196		Delaware
Cheyenne Mountain Resort LLC	04-1590850		Delaware
Cornerstone Partners IV LLC	71-0908077		Delaware
E-Wise Land Venture LLC	20-3887968		Delaware
Kazwell Realty Partners LLC	20-3887968		Delaware
King Alexander LLC	45-3754085		Delaware
Marco Hotel LLC	46-4255307		Delaware
MMI/BDI Riverside Mt. Vernon LLC	26-2704765		Delaware
MML O'Hare Hotel LLC	26-3799762		Delaware
Oakley Grove Development LLC	20-3887968		Delaware
Old Pasco Properties LLC	20-3887968		Delaware
Reston Arboretum LLC	75-2901061		Delaware
Riva Portland LLC	30-0713071		Delaware
Rockville Town Center LLC	54-2055778		Virginia
Seattle 1415 Hotel Owner LLC	46-5491311		Delaware
Sedona TFMP Land LLC	04-1590850		Delaware
South Myrtle Monrovia MM LLC	04-1590850		Delaware
South Pasco Properties LLC	20-3887968		Delaware
West 46 th Street Hotel LLC	05-1590850		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 Active Short Duration Bond Fund	47-3722434		Massachusetts
Babson Capital High Yield LLC*	55-0886109		Delaware
Babson Capital Floating Rate Income Fund, L.P.	27-3330830		Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Babson Capital Global Investment Funds plc	None		Ireland
Babson Capital Global Investment Fund 2 plc	None		Ireland
Babson Capital Global Umbrella Fund plc	None		Ireland
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Babson CLO Ltd. 2005-III	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 CLO Ltd. 2013-II	98-1128827		Cayman Islands

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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 CLO Ltd. 2014-I	None		Cayman Islands
Babson CLO Ltd. 2014-II	None		Cayman Islands
Babson CLO Ltd. 2014-III	None		Cayman Islands
Babson CLO Ltd. 2015-I	None		Cayman Islands
Babson CLO Ltd. 2015-II	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2014-II BV	None		Netherlands
Babson Global Floating Rate Fund	46-3133952		Massachusetts
Babson Global Income Opportunities Credit Fund	46-3119764		Massachusetts
Babson Investment Grade CLO Debt Fund LP	47-3971963		Delaware
Babson Mid-Market CLO Ltd. 2007-II	None		Cayman Islands
Babson Total Return Bond Fund	47-3734770		Massachusetts
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
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
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes II LLC*	71-1018134		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
Great Lakes LLC*	56-2505390		Delaware
Intermodal Holding II LLC	46-2344300		Delaware
Malin CLO B.V.	None		United Kingdom
Rockall CLO B.V.	None		United Kingdom
Saint James River CDO, Ltd.	None		Cayman Islands
Sapphire Valley CDO I, Ltd.	None		Cayman Islands
SDCOS L.P.	74-3182902		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
Tower Square Capital Partners, L.P.*	04-3722906		Delaware
Tower Square Capital Partners II, L.P.*	30-0336246		Delaware

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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>
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
Tower Square Capital Partners IV, L.P.	80-0920340		Delaware
Tower Square Capital Partners IV-A, L.P.	80-0920367		Delaware
Whately CDO, Ltd.	None		Cayman Islands
Wood Creek Multi Asset Fund, L.P.	20-4981369		Delaware
Wood Creek Venture Fund LLC	04-1590850		Delaware
Baring Affiliates & Funds:			
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:			
12-18 West 55th Street Predevelopment, LLC*	20-2548283		Delaware
2 Harbor Shore Member LLC*	46-4803557		Delaware
21 West 86 LLC*	45-5257904		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
CHC/RFP VI Core LLC	04-1590850		Delaware
Cornerstone Core Mortgage Fund I LP	27-1701733		Delaware
Cornerstone Core Mortgage Venture I LP	27-1701622		Delaware
Cornerstone Enhanced Mortgage Fund I LP	45-3751572		Delaware
Cornerstone Fort Pierce Development LLC*	56-2630592		Delaware
Cornerstone Global Real Estate LP*	20-8730751		Delaware
Cornerstone High Yield Venture LP	36-4770946		Delaware
Cornerstone Hotel Income and Equity Fund II LP	26-1828760		Delaware
Cornerstone Patriot Fund LP	20-5578089		Delaware
Cornerstone Real Estate Fund VIII LP	27-0547156		Delaware
Cornerstone Permanent Mortgage Fund	45-2632610		Delaware
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
CREA 330 Third LLC*	46-5001122		Delaware
CREA FMF Nashville LLC	46-4367364		Delaware
CREA/LYON West Gateway, LLC*	26-2399532		Delaware
CREA/PPC Venture LLC*	20-0348173		Delaware

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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>
Fallon Cornerstone One MPD LLC*	26-1611591		Delaware
Farringdon London Holdings LLC*	46-3880526		Delaware
Fan Pier Development LLC*	20-3347091		Delaware
Gracechurch London Holdings LLC*	46-1586427		Delaware
Infinity SCD Ltd.	None		United Kingdom
Johnston Groves LLC	20-4819358		Delaware
Metropolitan At Lorton*	20-5984759		Delaware
MM Greenhill Office LLC*	46-3317841		Delaware
MMI/Hines Harrison LLC*	46-5347643		Delaware
MM Woodfield Martingale LLC*	46-4077059		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Sawgrass Village Shopping Center LLC*	27-2977720		Delaware
SBNP SIA LLC	46-3465271		Delaware
Twenty Two Liberty LLC*	35-2484550		Massachusetts
UK LIW Manager LLC	45-4606547		Delaware
UK LIW Member LLC	45-4606547		Delaware
U.S. Buyer Broadcasting LLC	47-1855920		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
Waterford Development Associates	20-2970495		Delaware
Waterloo London Holdings LLC	47-1993493		Delaware
WeHo Domain LLC*	46-3122029		Delaware
MassMutual Premier Funds:			
MassMutual Barings Dynamic Allocation Fund	45-3168892		Massachusetts
MassMutual Premier Balanced Fund	04-3212054		Massachusetts
MassMutual Premier Core Bond Fund	04-3277549		Massachusetts
MassMutual Premier Disciplined Growth Fund	04-3539084		Massachusetts
MassMutual Premier Disciplined Value Fund	04-3539083		Massachusetts
MassMutual Premier Diversified Bond Fund	04-3464165		Massachusetts
MassMutual Premier Focused International Fund	02-0754273		Massachusetts
MassMutual Premier Global Fund	51-0529334		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 Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Short-Duration Bond Fund	04-3212057		Massachusetts
MassMutual Premier Small/Mid Cap Opportunities Fund	04-3424705		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Premier Value Fund	04-3277550		Massachusetts
MassMutual Select Funds:			
MassMutual Select Blackrock Global Allocation Fund	27-1028263		Massachusetts
MassMutual Select Blue Chip Growth Fund	04-3556992		Massachusetts

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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 Select Diversified International Fund	14-1980900		Massachusetts
MassMutual Select Diversified Value Fund	01-0821120		Massachusetts
MassMutual Select Focused Value Fund	04-3512590		Massachusetts
MassMutual Select Fundamental Growth Fund	04-3512593		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 MSCI EAFE International Index Fund	45-5357167		Massachusetts
MassMutual Select Overseas Fund	04-3557000		Massachusetts
MassMutual Select PIMCO Total Return Fund	27-2377446		Massachusetts
MassMutual Select Russell 2000 Small Cap Index Fund	45-5366542		Massachusetts
MassMutual Select S&P 500 Index Fund	04-3410047		Massachusetts
MassMutual Select Small Cap Growth Equity Fund	04-3464205		Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954		Massachusetts
MassMutual Select Small Company Value Fund	04-3584140		Massachusetts
MassMutual Select S&P Mid Cap Index Fund	45-5349772		Massachusetts
MassMutual Select Strategic Bond Fund	26-0099965		Massachusetts
MML Series Investment Funds:			
MML Series International Equity Fund	46-4257056		Massachusetts
MML Series Investment Funds II:			
MML Series II Asset Momentum Fund	47-3517233		Massachusetts
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
MML Series II Special Situations Fund	47-3559064		Massachusetts
MassMutual RetireSMART Funds:			
MassMutual RetireSMART 2010 Fund	03-0532456		Massachusetts
MassMutual RetireSMART 2015 Fund	27-1933828		Massachusetts
MassMutual RetireSMART 2020 Fund	03-0532467		Massachusetts
MassMutual RetireSMART 2025 Fund	27-1933753		Massachusetts
MassMutual RetireSMART 2035 Fund	27-1933389		Massachusetts
MassMutual RetireSMART 2040 Fund	03-0532471		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART 2050 Fund	26-1345332		Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207		Massachusetts
MassMutual RetireSMART Conservative Fund	45-1618155		Massachusetts
MassMutual RetireSMART Growth Fund	45-1618222		Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464		Massachusetts
MassMutual RetireSMART Moderate Fund	45-1618262		Massachusetts
MassMutual RetireSMART Moderate Growth Fund	45-1618046		Massachusetts

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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>
Oppenheimer Funds:			
HarbourView CLO 2006-1 Limited	None		Cayman Islands
HarbourView CLO VII, Ltd.	None		Cayman Islands
Oppenheimer Global High Yield Fund	45-3417590		Delaware
Oppenheimer Global Multi-Asset Growth Fund	47-36786235		Delaware
Oppenheimer Global Multi-Asset Income Fund	47-1714929		Delaware
Oppenheimer Global Real Estate Fund*	46-1604428		Delaware
Oppenheimer International Growth Fund	13-3867060		Massachusetts
Oppenheimer Main Street Fund	84-1073463		Massachusetts
Oppenheimer Real Estate Fund	22-3849391		Massachusetts

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STATEMENT AS OF SEPTEMBER 30, 2015 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	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	..RE	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	06-1041383	.....	.....	.....	CML Special Situations Investor 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	.....	.....	.....	MML Special Situations Investor 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	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 .....	..CT	..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	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 .....	.....
..0000	04-1590850	.....	.....	.....	MML Private Placement Investment Company I, LLC .....	..DE	..DS	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC .....	.....
..0000	45-2738137	.....	.....	.....	Pioneers Gate 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 .....	.....

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			04-3341767				MassMutual Holding MSC, Inc.	MA	DS	MSC Holding Company, LLC Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-2854319	2392316			MassMutual Holding LLC	DE	DS	MassMutual Holding LLC	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			47-1296410				MassMutual Ventures LLC	DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000							MM Caerulus Holdco US LLC	DE	DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.0000			04-1590850				MM Rotheray Holdco US 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		MMLSI 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			98-0610331				MassMutual Life Insurance Company	JPN	DS	MassMutual International LLC	Ownership	100.000	MMLIC	
.0000			98-1033127				MassMutual Internacional (Chile) SpA	CHL	DS	MassMutual International LLC	Ownership	100.000	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							BCF Europe Funding Limited	IRL	DS	Babson Capital Finance LLC	Ownership	100.000	MMLIC	
.0000							BCF Senior Funding I LLC	DE	DS	Babson Capital Finance 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 Management (UK) Limited	GBR	DS	Babson Capital Guernsey Limited	Ownership	100.000	MMLIC	
.0000							Babson GPC GP S.à.r.l.	LUX	DS	Babson Capital Europe 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			98-1012393				Babson Capital Global Advisors Limited	GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							BCGSS 2 GP LLP	GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Babson European Direct Lending 1 GP LLP	GBR	DS	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
.0000							Babson Capital Management (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			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 K.K.	JPN	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000							Cornerstone Real Estate UK Holdings Limited	DE	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000							CREAE AIFM LLP	GBR	DS	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
.0000							Cornerstone Real Estate UK (No. 2) Limited	GBR	DS	Cornerstone Real Estate UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0654401				Cornerstone Real Estate Advisers Europe LLP	GBR	DS	Cornerstone Real Estate UK Holdings Limited	Ownership	100.000	MMLIC	
.0000			98-0654388					GBR	DS	Limited	Ownership	100.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			98-1194368				Cornerstone Real Estate Advisers GmbH	DEU	DS	Cornerstone Real Estate UK Holdings Limited	Ownership	100.000	MMLIC	
.....0000							Babson Capital Management (Australia) Holding Company Pty Ltd.	AUS	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.....0000			98-0457456				Babson Capital Management (Australia) 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			47-2642354				Alchemy Copyrights, LLC	DE	NIA	Wood Creek Capital Management LLC	Ownership	13.100	MMLIC	
.....0000			47-3055009				Milestone Acquisition Holding, LLC	DE	NIA	Wood Creek Capital Management LLC	Ownership	19.400	MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	31.500	MMLIC	
.....0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000			46-3123110				Sweet Tree Holdings 1, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	16.100	MMLIC	
.....0000			46-3123110				Sweet Tree Holdings 1, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000							Tamiami Citurus, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	15.700	MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000							Teaktree Acquisition, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	14.700	MMLIC	
.....0000							Teaktree Acquisition, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
.....0000			46-1500495				U.S. WIG Holdings, LP	DE	NIA	Wood Creek Capital Management LLC	Ownership	11.700	MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000			46-3378584				WC Aircraft Holdings US II, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	17.900	MMLIC	
.....0000			46-3378584				WC Aircraft Holdings US II, LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC	
.....0000							Massachusetts Mutual Life Insurance Company							
.....0000							Wood Creek Aircraft Holding I, LP	CYM	NIA	Massachusetts Mutual Life Insurance Company	Ownership	12.100	MMLIC	
.....0000							Wood Creek Aircraft Holding I, LP	CYM	NIA	Wood Creek Capital Management LLC	Management		MMLIC	
.....0000			46-2104352				U.S. Trailer Holdings II LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
.....0000							Babson Capital Floating Rate Income Fund Management, LLC	DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.....0000			04-1590850		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		Babson TERO Management LLC	DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.....0000							Babson Investment Grade CLO Debt Management 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				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			80-0920285				Mezzco IV 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							Mezzco Australia II LLC	DE	DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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
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.....0000			04-1590850				Somerset Special Opportunities Management LLC	..DE	..DS	Babson Capital Management LLC	Ownership	100.000	MMLIC	
.....0000			84-1149206	2897101			Oppenheimer Acquisition Corp.	..DE	..DS	MassMutual Asset Management Holding LLC	Ownership	95.800	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.							
.....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							Trinity Investment Management Corporation	..PA	..DS		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			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	
.....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	0000932463		Baring North America 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		0001568131		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							Baring Asset Management UK Holdings Limited	..GBR	..DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.....0000			98-0465031				Baring Asset Management GmbH	..DEU	..DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.....0000							Baring Asset Management (Asia) Holdings Limited	..HKG	..DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.....0000			98-0524271				Baring International Fund Managers (Bermuda) Limited	..BMU	..DS	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC	
.....0000			98-0457465				Baring Asset Management (Asia) Limited	..HKG	..DS	Baring Asset Management (Asia) Holdings 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							Baring Asset Management (Australia) Pty Limited	..AUS	..DS	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC	
.....0000			98-0457456				Baring International Fund Managers (Ireland) Limited	..JRL	..DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	
.....0000							Baring Asset Management Switzerland Sarl	..CHE	..DS	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			98-0457707				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			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							Baring Investments (UK) Limited	..GBR	..DS	Baring Asset Management Limited	Ownership	100.000	MMLIC	
.....0000			62-0951563	1160004	0001259664		First Mercantile Trust Company	..TN	..DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.....0000			46-2252944				Haven Life Insurance Agency, LLC	..DE	..DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.....0000			04-2443240				MML Management Corporation	..MA	..DS	MassMutual Holding LLC	Ownership	100.000	MMLIC	
.....0000			04-3548444				MassMutual International Holding MSC, Inc.	..MA	..DS	MML Management Corporation	Ownership	100.000	MMLIC	
.....0000			47-1466022				Society of Grownups, LLC	..MA	..DS	MassMutual Holding LLC	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	
.....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			56-2574604				Invicta Advisors LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			27-0105644				Jefferies Finance LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	45.000	MMLIC	1
.....0000			27-0105644				Jefferies Finance LLC	..DE	..NIA	Babson Capital Management LLC	Ownership	5.000	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				MML Private Equity Intercontinental LLC	..DE	..NIA	MML Private Equity Fund Investor LLC	Ownership	100.000	MMLIC	
.....0000			04-1590850				100 w. 3rd Street LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			04-1590850				300 South Tryon Hotel LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			04-1590850				300 South Tryon LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			20-3887968				54 West Capital LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			16-1720387				Alexandria Towers Investors LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			06-1614196				Cambridge Hotel, LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			04-1590850				Cheyenne Mountain Resort LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			71-0908077				Cornerstone Partners IV LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			20-3887968				E-Wise Land Venture LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.....0000			20-3887968				Kazwell Realty Partners LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			45-3754085				King Alexander LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			46-4255307				Marco Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			26-2704765				MMI/BDI Riverside Mt. Vernon LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			26-3799762				MML O'Hare Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			20-3887968				Oakley Grove Development LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			20-3887968				Old Pasco Properties LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			75-2901061				Reston Arboretum LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			30-0713071				Riva Portland LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			54-2055778				Rockville Town Center LLC	VA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			46-5491311				Seattle 1415 Hotel Owner LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-1590850				Sedona TFMP Land LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-1590850				South Myrtle Monrovia MM LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			20-3887968				South Pasco Properties LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			04-1590850				West 46th Street Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000							Almack Mezzanine Fund I LP	GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership	34.900	MMLIC	
.0000							Almack Mezzanine Fund I LP	GBR	NIA	C.M. Life Insurance Company	Ownership	3.900	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	71.500	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	33.100	MMLIC	
.0000							Almack Mezzanine Fund III LP	GBR	NIA	C.M. Life Insurance Company	Ownership	4.100	MMLIC	
.0000							Almack Mezzanine Fund III LP	GBR	NIA	Babson Capital Europe Limited	Management		MMLIC	
.0000			47-3722434				Babson Active Short Duration Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	90.000	MMLIC	
.0000			47-3722434				Babson Active Short Duration Bond Fund	MA	NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			55-0886109		0001321302		Babson Capital High Yield LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	88.200	MMLIC	
.0000			55-0886109		0001321302		Babson Capital High Yield LLC	DE	NIA	C.M. Life Insurance Company	Ownership	11.800	MMLIC	
.0000			55-0886109		0001321302		Babson Capital High Yield LLC	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			27-3330830		0001521404		Babson Capital Floating Rate Income Fund, L.P.	DE	NIA	MassMutual Holding LLC	Ownership	7.900	MMLIC	
.0000			27-3330830		0001521404		Babson Capital Floating Rate Income Fund, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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
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.....0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..23.900	MMLIC	
.....0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	..DE	..NIA	C.M. Life Insurance Company	Ownership	..1.500	MMLIC	
.....0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	..DE	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000					0001502146		Babson Capital Global Investment Funds plc	..JRL	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.400	MMLIC	
.....0000					0001582591		Babson Capital Global Investment Fund 2 plc	..JRL	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.000	MMLIC	
.....0000					0001582591		Babson Capital Global Investment Fund 2 plc	..JRL	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000					0001515694		Babson Capital Global Umbrella Fund plc	..JRL	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..61.700	MMLIC	
.....0000					0001515694		Babson Capital Global Umbrella Fund plc	..JRL	..NIA	Babson Capital Europe Ltd	Management		MMLIC	
.....0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	..DE	..NIA	Company	Ownership	..78.600	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							Babson CLO Ltd. 2005-III	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	3
.....0000							Babson CLO Ltd. 2006-II	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	7
.....0000							Babson CLO Ltd. 2007-I	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	8
.....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	11
.....0000			98-1128827				Babson CLO Ltd. 2013-II	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	12
.....0000							Babson CLO Ltd. 2014-I	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	4
.....0000							Babson CLO Ltd. 2014-II	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	13
.....0000							Babson CLO Ltd. 2014-III	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	
.....0000							Babson CLO Ltd. 2015-I	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	14
.....0000							Babson CLO Ltd. 2015-II	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	15
.....0000							Babson Euro CLO 2014-I BV	..NLD	..NIA	Babson Capital Management LLC	Influence		MMLIC	
.....0000							Babson Euro CLO 2014-II BV	..NLD	..NIA	Babson Capital Management LLC	Influence		MMLIC	
.....0000			46-3133952				Babson Global Floating Rate Fund	..MA	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000			46-3133952				Babson Global Floating Rate Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..29.400	MMLIC	
.....0000			46-3119764				Babson Global Income Opportunities Credit Fund	..MA	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000			46-3119764				Babson Global Income Opportunities Credit Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..60.000	MMLIC	
.....0000							Babson Global Income Opportunities Credit Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership		MMLIC	
.....0000			47-3971963				Babson Investment Grade CLO Debt Fund LP	..DE	..NIA	Company	Ownership	..100.000	MMLIC	
.....0000			47-3971963				Babson Investment Grade CLO Debt Fund LP	..DE	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000							Babson Mid-Market CLO Ltd. 2007-II	..CYM	..NIA	Babson Capital Management LLC	Influence		MMLIC	2
.....0000			47-3734770				Babson Total Return Bond Fund	..MA	..NIA	Babson Capital Management LLC	Influence		MMLIC	
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	..NIA	MassMutual Capital Partners LLC	Ownership	..99.100	MMLIC	
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	..NIA	C.M. Life Insurance Company	Ownership	..0.100	MMLIC	
.....0000			98-0536233				Benton Street Partners I, L.P.	..CYM	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.800	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000			98-0536199				Benton Street Partners II, L.P.	.CYM	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.87.300	MMLIC	.5
.0000			98-0536199				Benton Street Partners II, L.P.	.CYM	.NIA	MassMutual Capital Partners LLC	Ownership	.12.700	MMLIC	
.0000			98-0536199				Benton Street Partners II, L.P.	.CYM	.NIA	Babson Capital Management LLC	Management		MMLIC	
.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	.9
.0000							Connecticut Valley Structured Credit CDO III, 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			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.74.200	MMLIC	
.0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	.DE	.NIA	C.M. Life Insurance Company	Ownership	.9.200	MMLIC	
.0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	.DE	.NIA	MassMutual Holding LLC	Ownership	.10.700	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			90-0991195		0001597511		Gateway Mezzanine Partners II LP	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.36.300	MMLIC	
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	.DE	.NIA	C.M. Life Insurance Company	Ownership	.5.400	MMLIC	
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	.DE	.NIA	MassMutual Holding LLC	Ownership	.5.200	MMLIC	
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	.DE	.NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			71-1018134				Great Lakes II LLC	.DE	.NIA	Massachusetts Mutual 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	
.0000			37-1708623		0001565779		Great Lakes III, L.P.	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.35.700	MMLIC	
.0000			37-1708623		0001565779		Great Lakes III, L.P.	.DE	.NIA	Babson Capital Management LLC	Management		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			46-2344300				Intermodal Holdings II LLC	.DE	.NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
.0000							Malin CLO B.V.	.GBR	.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							Sapphire Valley CDO I, Ltd.	.CYM	.NIA	Babson Capital Management LLC	Influence		MMLIC	.10
.0000			74-3182902				SDCOS L.P.	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.100.000	MMLIC	
.0000			74-3182902				SDCOS L.P.	.DE	.NIA	Babson Capital Management LLC	Management		MMLIC	
.0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	.60.700	MMLIC	
.0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	.DE	.NIA	C.M. Life Insurance Company	Ownership	.2.800	MMLIC	
.0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	.DE	.NIA	Babson Capital Management LLC	Management		MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..55.500	MMLIC	
.....0000			04-3722906		0001228752		Tower Square Capital Partners, L.P.	..DE	..NIA	C.M. Life Insurance Company	Ownership	..0.900	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	Ownership	..5.200	MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..25.800	MMLIC	
.....0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	..DE	..NIA	C.M. Life Insurance Company	Ownership	..1.900	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	Ownership	..4.600	MMLIC	
.....0000			32-0160190				Tower Square Capital Partners II-A, L.P.	..DE	..NIA	Massachusetts Mutual Life Insurance 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	Ownership	..3.100	MMLIC	
.....0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..19.100	MMLIC	
.....0000			41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P.	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..86.400	MMLIC	
.....0000			41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P.	..DE	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000			80-0920340		0001597019		Tower Square Capital Partners IV, L.P.	..DE	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000			80-0920367		0001598727		Tower Square Capital Partners IV-A, L.P.	..DE	..NIA	MassMutual Holding LLC	Ownership	..21.600	MMLIC	
.....0000			80-0920367		0001598727		Tower Square Capital Partners IV-A, L.P.	..DE	..NIA	Babson Capital Management LLC	Management		MMLIC	
.....0000							Whately CDO, Ltd.	..CYM	..NIA	Babson Capital Management LLC	Influence		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	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..40.000	MMLIC	
.....0000							Baring Emerging Market Corp Debt Fund	..JRL	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..83.600	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	..43.500	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	..89.900	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	Influence		MMLIC	
.....0000			26-1896226				Multi-Employer Global Aggregate Diversified Portfolio	..DE	..NIA	Baring Asset Management Limited	Management		MMLIC	
.....0000			20-2548283				12-18 West 55th Street Predevelopment, LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..89.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000			20-2548283				12-18 West 55th Street Predevelopment, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	7.700	MMLIC	
.0000			46-4803557				2 Harbor Shore Member LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	62.800	MMLIC	
.0000			46-4803557				2 Harbor Shore Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.200	MMLIC	
.0000			45-5257904				21 West 86 LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	91.300	MMLIC	
.0000			45-5257904				21 West 86 LLC	DE	NIA	C.M. Life Insurance Company	Ownership	4.800	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	36.000	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	0.000	MMLIC	
.0000			24-1446970		0001362970		Babson Mezzanine Realty Investors II	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			04-1590850				CHC/RFP VI Core LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			27-1701733		0001481753		Cornerstone Core Mortgage Fund I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture I LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	50.000	MMLIC	
.0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			45-3751572		0001534877		Cornerstone Enhanced Mortgage Fund I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	15.500	MMLIC	
.0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	84.400	MMLIC	
.0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.600	MMLIC	
.0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	92.300	MMLIC	
.0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.600	MMLIC	
.0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	50.000	MMLIC	
.0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
.0000			26-1828760		0001423638		Cornerstone Hotel Income & Equity Fund II LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	16.900	MMLIC	
.0000			20-5578089				Cornerstone Patriot Fund LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	10.200	MMLIC	
.0000			27-0547156				Cornerstone Real Estate Fund VIII LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	12.700	MMLIC	
.0000			45-2632610				Cornerstone Permanent Mortgage Fund	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
.0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	9.000	MMLIC	
.0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	C.M. Life Insurance Company	Ownership	1.000	MMLIC	
.0000			46-5001122				CREA 330 Third LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	92.000	MMLIC	
.0000			46-5001122				CREA 330 Third LLC	DE	NIA	C.M. Life Insurance Company	Ownership	8.000	MMLIC	
.0000			46-4367364				CREA FMF Nashville LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			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			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			26-1611591	3956836			Fallon Cornerstone One MPD LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..61.400	..MMLIC	
.....0000			26-1611591	3956836			Fallon Cornerstone One MPD LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..6.100	..MMLIC	
.....0000			20-3347091				Fan Pier Development LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..60.000	..MMLIC	
.....0000			20-3347091				Fan Pier Development LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..5.900	..MMLIC	
.....0000			46-3880526				Farrington London Holdings LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..94.500	..MMLIC	
.....0000			46-3880526				Farrington London Holdings LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..5.500	..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							Infinity SCD Ltd	..GBR	..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			20-5984759				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	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..81.000	..MMLIC	
.....0000			46-3317841				MM Greenhill Office LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..19.000	..MMLIC	
.....0000			46-5347643				MMI/Hines Harrison LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..82.800	..MMLIC	
.....0000			46-5347643				MMI/Hines Harrison LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..7.200	..MMLIC	
.....0000			46-4077059				MM Woodfield Martingale LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..80.400	..MMLIC	
.....0000			46-4077059				MM Woodfield Martingale LLC	..DE	..NIA	C.M. Life Insurance Company	Ownership	..19.600	..MMLIC	
.....0000							Salomon Brothers Commercial Mortgage Trust 2001-MM	..DE	..NIA	Cornerstone Real Estate Advisers LLC	Influence		..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			46-3465271				SBNP SIA LLC	..DE	..NIA	Cornerstone Real Estate Advisers LLC	Influence		..MMLIC	
.....0000			35-2484550				Twenty Two Liberty LLC	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..72.900	..MMLIC	
.....0000			35-2484550				Twenty Two Liberty LLC	..MA	..NIA	C.M. Life Insurance Company	Ownership	..7.200	..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	..99.000	..MMLIC	
.....0000			47-1855920				U.S. Buyer Broadcasting LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..12.700	..MMLIC	
.....0000			45-5401109				Washington Gateway Apartments Venture LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..91.000	..MMLIC	

13.10

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			45-5401109				Washington Gateway Apartments Venture LLC	..DE	.....NIA	C.M. Life Insurance Company	Ownership.....	..4.800	MMLIC	
.....0000			20-2970495				Waterford Development Associates	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..90.000	MMLIC	
.....0000			47-1993493				Waterloo London Holdings LLC	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000			46-3122029				WeHo Domain LLC	..DE	.....NIA	Company	Ownership.....	..77.400	MMLIC	
.....0000			46-3122029				WeHo Domain LLC	..DE	.....NIA	C.M. Life Insurance Company	Ownership.....	..12.600	MMLIC	
.....0000			20-5481477				Ygnatio Valley Funding	..DE	.....NIA	Company	Ownership.....	..90.000	MMLIC	
.....0000			45-3168892		00		MassMutual Barings Dynamic Allocation Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC	
.....0000			04-3212054		0000927972	00	MassMutual Premier Balanced Fund	..MA	.....NIA	Company	Ownership.....	..7.500	MMLIC	
.....0000			04-3277549		0000927972	00	MassMutual Premier Core Bond Fund	..MA	.....NIA	Company	Ownership.....	..2.100	MMLIC	
.....0000			04-3539083		0000927972	00	MassMutual Premier Disciplined Value Fund	..MA	.....NIA	Company	Ownership.....	..8.500	MMLIC	
.....0000			04-3539084		0000927972	00	MassMutual Premier Disciplined Growth Fund	..MA	.....NIA	Company	Ownership.....	..2.200	MMLIC	
.....0000			04-3464165		0000927972	00	MassMutual Premier Diversified Bond Fund	..MA	.....NIA	Company	Ownership.....	..6.100	MMLIC	
.....0000			02-0754273		0000927972	00	MassMutual Premier Focused International Fund	..MA	.....NIA	Company	Ownership.....	..0.000	MMLIC	
.....0000			51-0529334		0000927972	00	MassMutual Premier Global Fund	..MA	.....NIA	Company	Ownership.....	..11.200	MMLIC	
.....0000			04-3520009		0000927972	00	MassMutual Premier High Yield Fund	..MA	.....NIA	Company	Ownership.....	..13.600	MMLIC	
.....0000			03-0532475		0000927972	00	MassMutual Premier Inflation-Protected and Income Fund	..MA	.....NIA	Company	Ownership.....	..8.900	MMLIC	
.....0000			04-3212044		0000927972	00	MassMutual Premier International Equity Fund	..MA	.....NIA	Company	Ownership.....	..5.200	MMLIC	
.....0000			51-0529328		0000927972	00	MassMutual Premier Main Street Fund	..MA	.....NIA	Company	Ownership.....	..55.500	MMLIC	
.....0000			04-3212057		0000927972	00	MassMutual Premier Short-Duration Bond Fund	..MA	.....NIA	Company	Ownership.....	..1.700	MMLIC	
.....0000			04-3224705		0000927972	00	MassMutual Premier Small/Mid Cap Opportunities Fund	..MA	.....NIA	Company	Ownership.....	..10.700	MMLIC	
.....0000			26-3229251		0000927972	00	MassMutual Premier Strategic Emerging Markets Fund	..MA	.....NIA	Company	Ownership.....	..34.200	MMLIC	
.....0000			04-3277550		0000927972	00	MassMutual Premier Value Fund	..MA	.....NIA	Company	Ownership.....	..98.100	MMLIC	
.....0000			27-1028263		0000916053	00	MassMutual Select Blackrock Global Allocation Fund	..MA	.....NIA	Company	Ownership.....	..3.600	MMLIC	
.....0000			04-3556992		0000916053	00	MassMutual Select Blue Chip Growth Fund	..MA	.....NIA	Company	Ownership.....	..6.100	MMLIC	
.....0000			14-1980900		0000916053	00	MassMutual Select Diversified International Fund	..MA	.....NIA	Company	Ownership.....	..91.800	MMLIC	
.....0000			01-0821120		0000916053	00	MassMutual Select Diversified Value Fund	..MA	.....NIA	Company	Ownership.....	..35.700	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2015 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	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			04-3512590	.....	0000916053	QQ	MassMutual Select Focused Value Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..3.600	MMLIC	
.....0000			04-3512593	.....	0000916053	QQ	MassMutual Select Fundamental Growth Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..55.700	MMLIC	
.....0000			04-3584138	.....	0000916053	QQ	MassMutual Select Fundamental Value Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..4.100	MMLIC	
.....0000			04-3512589	.....	0000916053	QQ	MassMutual Select Growth Opportunities Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..5.000	MMLIC	
.....0000			04-3513019	.....	0000916053	QQ	MassMutual Select Large Cap Value Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..99.900	MMLIC	
.....0000			04-3512596	.....	0000916053	QQ	MassMutual Select Mid Cap Growth Equity II Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..1.700	MMLIC	
.....0000			42-1710935	.....	0000916053	QQ	MassMutual Select Mid-Cap Value Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..99.800	MMLIC	
.....0000			45-5357167	.....	0000916053	QQ	MassMutual Select MSCI EAFE International Index Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..3.000	MMLIC	
.....0000			04-3557000	.....	0000916053	QQ	MassMutual Select Overseas Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..2.500	MMLIC	
.....0000			27-2377446	.....	0000916053	QQ	MassMutual Select PIMCO Total Return Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..5.200	MMLIC	
.....0000			45-5366542	.....	0000916053	QQ	MassMutual Select Russell 2000 Small Cap Index Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..4.900	MMLIC	
.....0000			04-3410047	.....	0000916053	QQ	MassMutual Select S&P 500 Index Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..5.300	MMLIC	
.....0000			04-3464205	.....	0000916053	QQ	MassMutual Select Small Cap Growth Equity Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..6.300	MMLIC	
.....0000			02-0769954	.....	0000916053	QQ	MassMutual Select Small Capital Value Equity Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..25.400	MMLIC	
.....0000			04-3584140	.....	0000916053	QQ	MassMutual Select Small Company Value Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..2.300	MMLIC	
.....0000			45-5349772	.....	0000916053	QQ	MassMutual Select S&P Mid Cap Index Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..3.500	MMLIC	
.....0000			26-0099965	.....	0000916053	QQ	MassMutual Select Strategic Bond Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.700	MMLIC	
.....0000			46-4257056	.....	0000067160		MML Series International Equity Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..7.300	MMLIC	
.....0000			47-3517233	.....	0001317146		MML Series II Asset Momentum Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..100.000	MMLIC	
.....0000			47-3529636	.....	0001317146		MML Series II Dynamic Bond Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..100.000	MMLIC	
.....0000			47-3544629	.....	0001317146		MML Series II Equity Rotation Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..100.000	MMLIC	
.....0000			47-3559064	.....	0001317146		MML Series II Special Situations Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..100.000	MMLIC	
.....0000			03-0532456	.....	0000916053		MassMutual RetireSMART 2010 Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..5.200	MMLIC	
.....0000			27-1933828	.....	0000916053		MassMutual RetireSMART 2015 Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..6.200	MMLIC	
.....0000			03-0532467	.....	0000916053		MassMutual RetireSMART 2020 Fund	..MA	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.000	MMLIC	

13.12

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.....0000			27-1933753		0000916053		MassMutual RetireSMART 2025 Fund	..MANIA	Massachusetts Mutual Life Insurance Company	Ownership	..2.300	MMLIC	
.....0000			27-1933389		0000916053		MassMutual RetireSMART 2035 Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..2.700	MMLIC	
.....0000			03-0532471		0000916053		MassMutual RetireSMART 2040 Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..3.400	MMLIC	
.....0000			27-1932769		0000916053		MassMutual RetireSMART 2045 Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..11.300	MMLIC	
.....0000			26-1345332		0000916053		MassMutual RetireSMART 2050 Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..9.500	MMLIC	
.....0000			46-3289207		0000916053		MassMutual RetireSMART 2055 Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..17.300	MMLIC	
.....0000			45-1618155		0000916053		MassMutual RetireSMART Conservative Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..9.900	MMLIC	
.....0000			45-1618222		0000916053		MassMutual RetireSMART Growth Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..6.700	MMLIC	
.....0000			03-0532464		0000916053		MassMutual RetireSMART In Retirement Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.000	MMLIC	
.....0000			45-1618262		0000916053		MassMutual RetireSMART Moderate Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..3.800	MMLIC	
.....0000			45-1618046		0000916053		MassMutual RetireSMART Moderate Growth Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..5.000	MMLIC	
.....0000							HarbourView CLO 2006-1 Limited	..CYM	.....NIA	OppenheimerFunds, Inc.	Influence		MMLIC	
.....0000							HarbourView CLO VII, Ltd.	..CYM	.....NIA	OppenheimerFunds, Inc.	Influence		MMLIC	
.....0000			45-3417590		0001530245		Oppenheimer Global High Yield Fund	..DE	.....NIA	OppenheimerFunds, Inc.	Ownership	..74.300	MMLIC	
.....0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..43.700	MMLIC	
.....0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	..DE	.....NIA	C.M. Life Insurance Company	Ownership	..3.600	MMLIC	
.....0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	..DE	.....NIA	OppenheimerFunds, Inc.	Management		MMLIC	
.....0000			13-3867060		0001005728		Oppenheimer International Growth Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.000	MMLIC	
.....0000			84-1073463		0001116894		Oppenheimer Main Street Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..0.000	MMLIC	
.....0000			47-3676235				Oppenheimer Global Multi-Asset Growth Fund	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..99.900	MMLIC	
.....0000			47-1714929				Oppenheimer Global Multi-Asset Income Fund	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..97.600	MMLIC	
.....0000			22-3849391		0001163166		Oppenheimer Real Estate Fund	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..2.000	MMLIC	

Asterisk	Explanation
1	Massachusetts Mutual Life Insurance Company owns .63% of the affiliated debt of Jefferies Finance LLC
2	Debt investors own 19.7% and include Babson CLO Ltd. 2006-II, Babson CLO Ltd. 2007-I, Babson Capital Loan Strategies Fund, L.P., and Sapphire Valley CDO I, Ltd.
3	Debt investors own 29.4% and includes only Babson Capital Loan Strategies Fund, L.P.
4	Debt investors own 4.7% and includes only Great Lakes III, L.P.
5	Partnership investors own 99% and include Babson Loan Strategies Fund, L.P.
6	Fugu Credit Plc owns 100% of the Fugu CLO B.V. assets
7	Debt investors own 16.7% and include Sapphire Valley, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2007-I, and Babson Mid-Market CLO Ltd. 2007-II

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

Asterisk	Explanation
8	Debt investors own 9.4% and includes only Babson Capital Loan Strategies Fund, L.P.
9	Debt investors own 84.6% and includes only Connecticut Valley Structured Credit CDO III, Ltd.
10	Debt investors own 54.6% and includes only Babson Capital Loan Strategies Fund, L.P.
11	Debt investors own 5.0% and includes only Babson Capital Loan Strategies Fund, L.P.
12	Debt investors own 5.6% and includes only Great Lakes III, L.P.
13	Debt investors own 7.1% and includes only Great Lakes III, L.P.
14	Debt investors own 3.1% and includes only Great Lakes III, L.P.
15	Debt investors own 4.1% and includes only Great Lakes III, L.P.

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:

1. Not required.
2. This line of business is not written by the company.
3. Not required.
4. Not required.
5. Not required.
6. Not required.
7. Not required.

Bar Code:

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



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. Cash advances to agents	123,660,298	123,654,987	5,311	
2505. Pension plan asset	670,338,696	670,338,696		
2506. Commissions and expenses on long-term lease	48,089,735	48,089,735		
2507. Intangible assets	1,888,889	1,888,889		
2508. Bills receivable	254,216	254,216		
2509. Real estate notes receivable				24,564,131
2597. Summary of remaining write-ins for Line 25 from overflow page	844,231,834	844,226,523	5,311	24,564,131

Additional Write-ins for Liabilities Line 25

	1 Current Statement Date	2 December 31 Prior Year
2504. Funds awaiting escheat and other miscellaneous	43,958,101	40,344,162
2505. Deferred liability	21,853,838	1,710,816
2597. Summary of remaining write-ins for Line 25 from overflow page	65,811,939	42,054,978

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. Miscellaneous charges to operations	26,013,081	(16,362,610)	(14,594,421)
2797. Summary of remaining write-ins for Line 27 from overflow page	26,013,081	(16,362,610)	(14,594,421)

SCHEDULE A - VERIFICATION

Real Estate

	1 Year to Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	775,877,372	849,212,095
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	67,306,408	137,001,558
2.2 Additional investment made after acquisition	202,847,334	144,693,154
3. Current year change in encumbrances	(43,066,222)	(137,636,438)
4. Total gain (loss) on disposals	1,356,838	210,988,647
5. Deduct amounts received on disposals	11,135,408	338,453,781
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	70,629,426	89,927,863
9. Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)	922,556,896	775,877,372
10. Deduct total nonadmitted amounts		
11. Statement value at end of current period (Line 9 minus Line 10)	922,556,896	775,877,372

SCHEDULE B - VERIFICATION

Mortgage Loans

	1 Year to Date	2 Prior Year Ended December 31
1. Book value/recorded investment excluding accrued interest, December 31 of prior year	19,356,684,887	16,473,709,152
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	3,231,455,148	4,356,553,963
2.2 Additional investment made after acquisition	304,886,000	343,906,179
3. Capitalized deferred interest and other	24,968,339	10,445,161
4. Accrual of discount	1,302,243	2,652,029
5. Unrealized valuation increase (decrease)		
6. Total gain (loss) on disposals	(2,580,065)	1,524,412
7. Deduct amounts received on disposals	1,594,382,107	1,733,777,081
8. Deduct amortization of premium and mortgage interest points and commitment fees	7,033,881	8,836,909
9. Total foreign exchange change in book value/recorded investment excluding accrued interest	(59,232,607)	(79,083,573)
10. Deduct current year's other than temporary impairment recognized		10,408,446
11. Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	21,256,067,957	19,356,684,887
12. Total valuation allowance	(5,465,154)	
13. Subtotal (Line 11 plus Line 12)	21,250,602,803	19,356,684,887
14. Deduct total nonadmitted amounts		
15. Statement value at end of current period (Line 13 minus Line 14)	21,250,602,803	19,356,684,887

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	1 Year to Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	7,052,880,574	7,278,892,120
2. Cost of acquired:		
2.1 Actual cost at time of acquisition	1,456,326,803	297,251,336
2.2 Additional investment made after acquisition	905,678,334	1,214,780,370
3. Capitalized deferred interest and other		
4. Accrual of discount		
5. Unrealized valuation increase (decrease)	370,745,566	1,042,162,289
6. Total gain (loss) on disposals		45,572,060
7. Deduct amounts received on disposals	2,190,747,568	2,804,930,461
8. Deduct amortization of premium and depreciation	608,553	379,788
9. Total foreign exchange change in book/adjusted carrying value	(23,146,073)	(18,022,634)
10. Deduct current year's other than temporary impairment recognized	1,295,343	2,444,718
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	7,569,833,740	7,052,880,574
12. Deduct total nonadmitted amounts	68,109,117	82,887,770
13. Statement value at end of current period (Line 11 minus Line 12)	7,501,724,623	6,969,992,804

SCHEDULE D - VERIFICATION

Bonds and Stocks

	1 Year to Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value of bonds and stocks, December 31 of prior year	84,372,279,178	75,067,498,526
2. Cost of bonds and stocks acquired	15,335,397,251	24,972,581,331
3. Accrual of discount	345,068,200	482,550,007
4. Unrealized valuation increase (decrease)	117,357,330	1,304,030,872
5. Total gain (loss) on disposals	91,852,604	425,228,669
6. Deduct consideration for bonds and stocks disposed of	11,328,179,460	17,255,220,890
7. Deduct amortization of premium	149,698,227	201,542,649
8. Total foreign exchange change in book/adjusted carrying value	(142,538,247)	(300,001,147)
9. Deduct current year's other than temporary impairment recognized	122,765,781	122,845,541
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	88,518,772,848	84,372,279,178
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	88,518,772,848	84,372,279,178

STATEMENT AS OF SEPTEMBER 30, 2015 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 NAIC Designation

NAIC Designation	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. NAIC 1 (a)	44,207,311,609	2,608,784,928	1,585,178,499	63,621,779	44,328,550,623	44,207,311,609	45,294,539,817	43,833,393,444
2. NAIC 2 (a)	27,870,868,252	31,985,319,719	30,929,257,526	267,863,481	27,144,111,354	27,870,868,252	29,194,793,926	26,387,797,369
3. NAIC 3 (a)	3,397,022,329	709,005,089	138,628,166	(356,447,029)	3,147,019,169	3,397,022,329	3,610,952,223	2,830,806,610
4. NAIC 4 (a)	1,847,425,764	401,392,642	121,862,274	(109,550,082)	1,960,110,897	1,847,425,764	2,017,406,050	1,936,387,385
5. NAIC 5 (a)	701,613,129	41,950,903	75,414,071	50,367,845	693,000,776	701,613,129	718,517,806	815,060,053
6. NAIC 6 (a)	410,839,203	31,430,980	79,531,016	(9,191,147)	472,302,893	410,839,203	353,548,020	492,787,973
7. Total Bonds	78,435,080,286	35,777,884,261	32,929,871,552	(93,335,153)	77,745,095,712	78,435,080,286	81,189,757,842	76,296,232,834
PREFERRED STOCK								
8. NAIC 1	250,793,751				232,800,000	250,793,751	250,793,751	186,000,000
9. NAIC 2	236,035,276		26,392,727	(71,818)	221,083,276	236,035,276	209,570,731	211,077,676
10. NAIC 3	123,000,000				123,000,000	123,000,000	123,000,000	123,000,000
11. NAIC 4	4,444,441	546,253		(1,235,120)	4,392,538	4,444,441	3,755,574	3,964,646
12. NAIC 5	309,572			1,246,458	652,497	309,572	1,556,030	652,497
13. NAIC 6			64,859	64,859				
14. Total Preferred Stock	614,583,040	546,253	26,457,586	4,379	581,928,311	614,583,040	588,676,086	524,694,819
15. Total Bonds and Preferred Stock	79,049,663,326	35,778,430,514	32,956,329,138	(93,330,774)	78,327,024,023	79,049,663,326	81,778,433,928	76,820,927,653

(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 \$ 5,172,513 ; NAIC 2 \$ 2,034,648,025 ; NAIC 3 \$ 508,147,763 ; NAIC 4 \$; NAIC 5 \$; NAIC 6 \$

SCHEDULE DA - PART 1

Short-Term Investments

	1 Book/Adjusted Carrying Value	2 Par Value	3 Actual Cost	4 Interest Collected Year-to-Date	5 Paid for Accrued Interest Year-to-Date
9199999 Totals	151,458,942	XXX	151,178,093		

SCHEDULE DA - VERIFICATION

Short-Term Investments

	1 Year To Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	371,463,818	422,802,547
2. Cost of short-term investments acquired	818,026,677	1,702,836,377
3. Accrual of discount	817,039	2,009,802
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	7,466	19,006
6. Deduct consideration received on disposals	1,038,856,058	1,756,203,914
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)	151,458,942	371,463,818
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	151,458,942	371,463,818

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)	3,106,864,771
2. Cost Paid/(Consideration Received) on additions	368,572,764
3. Unrealized Valuation increase/(decrease)	127,613,489
4. Total gain (loss) on termination recognized	40,167,157
5. Considerations received/(paid) on terminations	300,912,067
6. Amortization	(3,066,651)
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)	3,339,239,463
10. Deduct nonadmitted assets	
11. Statement value at end of current period (Line 9 minus Line 10)	3,339,239,463

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	
Change in variation margin on open contracts - All Other	
3.13 Section 1, Column 18, current year to date minus	22,361,207
3.14 Section 1, Column 18, prior year	38,195,977 (15,834,770) (15,834,770)
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	22,361,207
3.24 Section 1, Column 19, prior year	38,195,977 (15,834,770) (15,834,770)
3.3 Subtotal (Line 3.1 minus Line 3.2)	
4.1 Cumulative variation margin on terminated contracts during the year	39,698,451
4.2 Less:	
4.21 Amount used to adjust basis of hedged item	
4.22 Amount recognized	1,502,474 1,502,474
4.3 Subtotal (Line 4.1 minus Line 4.2)	38,195,977
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	(38,195,977)
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, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	2	50,000,000	4,000,000	4,658,883	10/01/2012	10/01/2042	Swap/Vanilla	716,171		27965F-AD-4	West Pharmaceutical Services Senior Note Series B	2	4,000,000	3,942,712
57629*AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	2		28,342,344	28,550,738	10/01/2012	10/01/2042	Swap/Vanilla			758750-AA-2	REGAL-BELOIT CORPORATION	2	28,342,344	28,550,738
57629*AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	2		11,970,000	12,932,500	10/01/2012	10/01/2042	Swap/Vanilla			69350K-AA-4	PNC PREFERRED FUNDING TRU	2	11,970,000	12,932,500
57629*AA9	Evergreen Basket of Long Fixed Rate Corp Inv Grade Equiv Bonds	2		10,936,732	11,472,500	10/01/2012	10/01/2042	Swap/Vanilla			320808-AD-0	FIRST MARYLAND CAPITAL I	2	10,936,732	11,472,500
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3	50,000,000	4,534,711	5,054,665	10/01/2012	10/01/2042	Swap/Vanilla	654,370		38137A-AG-8	GOLDENTREE LOAN OPPORTUNITY	1	4,534,711	4,400,295
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		6,240,131	6,370,000	10/01/2012	10/01/2042	Swap/Vanilla			67818N-ZZ-5	STELLA EWL FIN PTY LTD	2	6,240,131	6,370,000
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		5,098,847	5,090,688	10/01/2012	10/01/2042	Swap/Vanilla			77277L-A7-2	ROCKALL CLO BV	1	5,098,847	5,090,688
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		11,727,767	12,146,984	10/01/2012	10/01/2042	Swap/Vanilla			979JYG-11-6	I 595 EXPRESS, LLC	2	11,727,767	12,146,984
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		11,166,328	11,615,427	10/01/2012	10/01/2042	Swap/Vanilla			979JYH-11-4	I 595 EXPRESS, LLC	2	11,166,328	11,615,427
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		5,315,782	5,324,423	10/01/2012	10/01/2042	Swap/Vanilla			05377J-AL-6	AVIS BUDGET CAR RENTAL LL	3	5,315,782	5,324,423
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		4,920,730	4,816,435	10/01/2012	10/01/2042	Swap/Vanilla			979JZF-11-7	WOMENS COLLEGE PARTNERSHI	2	4,920,730	4,816,435
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		2,029,500	2,020,205	10/01/2012	10/01/2042	Swap/Vanilla			81683U-AF-4	SEMINOLE TRIBE OF FLORIDA	2	2,029,500	2,020,205
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		108,000	107,832	10/01/2012	10/01/2042	Swap/Vanilla			01881C-AH-8	ALLIANT TECHSYSTEMS INC.	2	108,000	107,832
57629*AB7	Evergreen Basket of Long Fixed Rate Bank Loans B- or Above	3		1,421,956	1,416,026	10/01/2012	10/01/2042	Swap/Vanilla			48578P-AF-2	DIGITAL CINEMA IMPLEMENTA	2	1,421,956	1,416,026
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	264,000,000	16,485,002	17,965,032	11/29/2012	11/29/2042	Swap/Vanilla	2,476,328		87244D-AC-8	Wind River CLO Ltd Series 2013-1A Class A2	1	16,485,002	15,488,704
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,270,000	17,574,703	11/29/2012	11/29/2042	Swap/Vanilla			87244D-AA-2	Wind River CLO Ltd Series 2013-1A Class A1	1	18,270,000	17,574,703
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,614,218	4,450,320	11/29/2012	11/29/2042	Swap/Vanilla			09625Y-AG-6	Bluemountain CLO Ltd Series 2012-1A Class C	1	4,614,218	4,450,320
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		185,113,486	181,674,897	11/29/2012	11/29/2042	Swap/Vanilla			85815X-AA-1	Steele Creek CLO LTD	1	185,113,486	181,674,897
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		46,158,834	45,252,341	11/29/2012	11/29/2042	Swap/Vanilla			14955A-AA-1	Cavalry CLO Ltd Series	1	46,158,834	45,252,341
57629*AC5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,315,167	15,360,408	11/29/2012	11/29/2042	Swap/Vanilla			39808F-AC-2	GREYWOLF CLO I LTD	1	15,315,167	15,360,408
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	63,487,774	70,733,167	12/27/2012	12/27/2042	Swap/Vanilla	4,759,536		803066-AA-7	Sapphire Valley CDO Ltd Series 2006-1A Class A	1	63,487,774	65,973,631
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,361,402	6,389,331	12/27/2012	12/27/2042	Swap/Vanilla			05618M-AJ-3	BABSON CLO LTD	1	6,361,402	6,389,331
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,004,283	1,982,158	12/27/2012	12/27/2042	Swap/Vanilla			50183X-AG-6	LCM LTD PARTNERSHIP	1	2,004,283	1,982,158
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,394,069	7,261,372	12/27/2012	12/27/2042	Swap/Vanilla			449796-AJ-0	ING INVESTMENT MANAGEMENT	1	7,394,069	7,261,372
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,439,460	4,459,679	12/27/2012	12/27/2042	Swap/Vanilla			87154E-AF-7	SYMPHONY CLO LTD	1	4,439,460	4,459,679
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,611,470	4,517,326	12/27/2012	12/27/2042	Swap/Vanilla			15135A-AA-1	CENT CDO LTD	1	4,611,470	4,517,326
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,729,185	2,882,008	12/27/2012	12/27/2042	Swap/Vanilla			36320P-AC-5	GALE FORCE CLO LTD	1	2,729,185	2,882,008
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,135,033	5,981,244	12/27/2012	12/27/2042	Swap/Vanilla			87158F-AE-3	SYMPHONY CLO LTD	1	6,135,033	5,981,244
57629*AE1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,049,167	4,051,997	12/27/2012	12/27/2042	Swap/Vanilla			449796-AE-1	ING INVESTMENT MANAGEMEN	1	4,049,167	4,051,997
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	43,800,000	48,340,492	12/27/2012	12/27/2042	Swap/Vanilla	4,759,536		00900A-AA-6	Aimco Series 2014-AA Class A	1	43,800,000	43,580,956
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,252,427	5,221,400	12/27/2012	12/27/2042	Swap/Vanilla			00889V-AC-1	AIMCO CDO	1	5,252,427	5,221,400

S105

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,793,755	10,786,722	12/27/2012	12/27/2042	Swap/Vanilla			14309D-AC-4	Carlyle High Yield Partners Series 2007-10A Class A2B	1	11,793,755	10,786,722
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,500,000	10,499,381	12/27/2012	12/27/2042	Swap/Vanilla			74982G-AE-1	Race Point VII CLO Ltd. Series 2012-7A Class B	1	10,500,000	10,499,381
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		28,520,420	27,770,733	12/27/2012	12/27/2042	Swap/Vanilla			26250U-AC-9	Dryden Senior Loan Fund Series 2013-26A Class A	1	28,520,420	27,770,733
57629*AD3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,900,000	4,761,031	12/27/2012	12/27/2042	Swap/Vanilla			67590B-AE-0	Octagon INV Partners XVI LTD Kingsland LTD Series 2006-3A Class A1	1	4,900,000	4,761,031
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	36,838,620	41,870,748	12/28/2012	12/28/2042	Swap/Vanilla		5,012,124	49638T-AC-7	Prospect Park CDO Ltd Series 2006-1A Class A	1	36,838,620	36,858,624
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,578,643	4,555,471	12/28/2012	12/28/2042	Swap/Vanilla			743520-AA-6	Goldentree Loan Opportunities Series 2007-3A Class A1BJ	1	4,578,643	4,555,471
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,526,919	11,764,068	12/28/2012	12/28/2042	Swap/Vanilla			38136B-AG-7	Madison Park Funding Ltd Series 2007-4A Class A1B	1	11,526,919	11,764,068
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,726,869	14,965,166	12/28/2012	12/28/2042	Swap/Vanilla			55817U-AB-6	EQP CLO Ltd Series 2012-4A Class A2	1	14,726,869	14,965,166
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,438,581	8,344,705	12/28/2012	12/28/2042	Swap/Vanilla			26828C-AC-2	Symphony CLO LTD	1	8,438,581	8,344,705
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,077,102	9,059,937	12/28/2012	12/28/2042	Swap/Vanilla			87155M-AC-5	BOWMAN PARK CLO, LTD	1	9,077,102	9,059,937
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,697,022	6,567,478	12/28/2012	12/28/2042	Swap/Vanilla			10302V-AG-0	MADISON PARK FUNDING LTD	1	6,697,022	6,567,478
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,741,950	6,824,535	12/28/2012	12/28/2042	Swap/Vanilla			55818X-AG-8	BABSON CLO LTD	1	6,741,950	6,824,535
57629*AF8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,807,494	2,875,614	12/28/2012	12/28/2042	Swap/Vanilla			05617A-AA-9	OHA Loan Funding Ltd. Series 2013-2A Class A	1	2,807,494	2,875,614
57629*AH4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	34,592,706	38,563,768	12/28/2012	12/28/2042	Swap/Vanilla		5,012,124	67104L-AA-5	Goldentree Loan Opp VII Ltd Series 2013-7A Class B	1	34,592,706	33,551,644
57629*AH4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,150,000	8,923,730	12/28/2012	12/28/2042	Swap/Vanilla			38137D-AC-1	Venture CDO Limited Series 2014-16A Class A1L	1	9,150,000	8,923,730
57629*AH4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		42,621,131	41,725,110	12/28/2012	12/28/2042	Swap/Vanilla			92329X-AA-6	Tryon Park CLO, LTD.	1	42,621,131	41,725,110
57629*AH4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,900,000	17,272,605	12/28/2012	12/28/2042	Swap/Vanilla			89852T-AC-2	CARLYLE GLOBAL MARKET STR	1	17,900,000	17,272,605
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	9,325,000	14,361,145	12/28/2012	12/28/2042	Swap/Vanilla		5,012,124	14310U-AC-3	GOLDENTREE LOAN OPPORTUNITIES Oha Park Avenue CLO Ltd Series 2007-1A Class A1B	1	9,325,000	9,349,021
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,400,000	5,305,419	12/28/2012	12/28/2042	Swap/Vanilla			38137D-AG-2	Bluemountain CLO Ltd Series 2013-2A Class B1	1	5,400,000	5,305,419
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,108,276	23,112,241	12/28/2012	12/28/2042	Swap/Vanilla			67085X-AB-0	Race Point CLO Ltd. Series 2013-8A Class B	1	23,108,276	23,112,241
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,100,000	9,866,902	12/28/2012	12/28/2042	Swap/Vanilla			09626Y-AC-4	Flatiron CLO LTD Series 2011-1A Class A	1	10,100,000	9,866,902
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,811,670	6,494,585	12/28/2012	12/28/2042	Swap/Vanilla			74982L-AE-0	Emerson Park CLO, Ltd. Series 2013-1A Class B1	1	6,811,670	6,494,585
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,600,000	13,579,382	12/28/2012	12/28/2042	Swap/Vanilla			33882W-AA-1	O H A Loan Funding LTD.	1	13,600,000	13,579,382
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,341,926	12,612,608	12/28/2012	12/28/2042	Swap/Vanilla			29108Q-AC-6	LOM LTD PARTNERSHIP	1	13,341,926	12,612,608
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,545,864	10,400,187	12/28/2012	12/28/2042	Swap/Vanilla			67091H-AC-5	JFIN CLO LTD	1	10,545,864	10,400,187
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,994,316	4,866,180	12/28/2012	12/28/2042	Swap/Vanilla			50184V-AG-9	STANFORD STREET CLO, LTD	1	4,994,316	4,866,180
57629*AG6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,878,413	4,698,455	12/28/2012	12/28/2042	Swap/Vanilla			46617N-AE-7	OHA Infraprd Lev Loan Fund Series 2011-1AR Class CR	1	4,878,413	4,698,455
57629*AJU	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	15,227,052	17,368,617	12/28/2012	12/28/2042	Swap/Vanilla		2,506,062	854432-AA-9	Sapphire Valley CDO Ltd Series 2006-1A Class D	1	15,227,052	14,862,555
57629*AJU	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,200,000	14,199,631	12/28/2012	12/28/2042	Swap/Vanilla			67089B-AN-8	Bluemountain CLO Ltd Series 2013-3A Class A	1	14,200,000	14,199,631
57629*AJU	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,436,892	6,652,933	12/28/2012	12/28/2042	Swap/Vanilla			803066-AG-4		1	6,436,892	6,652,933
57629*AJU	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		19,964,096	19,628,695	12/28/2012	12/28/2042	Swap/Vanilla			09625J-AA-2		1	19,964,096	19,628,695

S105.1

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*AK7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	35,568,749	37,772,490	12/28/2012	12/28/2042	Swap/Vanilla	2,506,062	2,506,062	131248-AC-0	Callidus Debt Partners CDO Fnd Series 6A Class A1T	1	35,568,749	35,266,428
57629*AK7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	8,092,163	8,092,163	8,059,241	12/28/2012	12/28/2042	Swap/Vanilla			67089B-AB-4	OHA Intrepid Lev Loan Fund Series 2011-1A Class B	1	8,092,163	8,059,241
57629*AK7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	7,036,693	7,036,693	7,409,325	12/28/2012	12/28/2042	Swap/Vanilla			15135D-AC-1	Cent CDO Ltd Series 2007-14A Class B	1	7,036,693	7,409,325
57629*AL5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	11,783,108	13,696,883	12/28/2012	12/28/2042	Swap/Vanilla	2,506,062	2,506,062	14310D-AG-2	Carlyle Global Market Strategy Series 2013-2A Class C1	1	11,783,108	11,190,821
57629*AL5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	23,678,788	23,678,788	22,874,328	12/28/2012	12/28/2042	Swap/Vanilla			00164B-AC-1	A L M Loan Funding Series 2013-7R2A Class A2	1	23,678,788	22,874,328
57629*AL5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	17,625,000	17,625,000	17,461,740	12/28/2012	12/28/2042	Swap/Vanilla			55952Y-AC-1	Magnetite VIII CLO LTD	1	17,625,000	17,461,740
57629*AM3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	19,725,354	21,963,245	12/28/2012	12/28/2042	Swap/Vanilla	2,506,062	2,506,062	278287-AA-5	Eaton Vance CDO Ltd Series 2006-8A Class A	1	19,725,354	19,457,183
57629*AM3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	24,417,019	24,417,019	24,360,132	12/28/2012	12/28/2042	Swap/Vanilla			38136G-AB-7	Goldentree Loan Opportunities Series 2007-4A Class A1B	1	24,417,019	24,360,132
57629*AM3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,040,159	3,040,159	2,955,609	12/28/2012	12/28/2042	Swap/Vanilla			87159Q-AN-8	SYMPHONY CLO LTD	1	3,040,159	2,955,609
57629*AM3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,093,487	3,093,487	3,252,746	12/28/2012	12/28/2042	Swap/Vanilla			67134N-AN-7	OAK HILL CREDIT PARTNERS Rampart CLO Ltd Series 2007-1A Class A	2	3,093,487	3,252,746
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	9,537,420	11,519,644	12/31/2012	12/31/2042	Swap/Vanilla	2,006,514	2,006,514	75157E-AA-0	Pinnacle Park CLO, LTD.	1	9,537,420	9,513,130
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	7,000,000	7,000,000	6,996,241	12/31/2012	12/31/2042	Swap/Vanilla			72349B-AE-4	Inwood Park CDO Ltd Series 2006-1A Class A1B	1	7,000,000	6,996,241
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	14,825,273	14,825,273	14,562,542	12/31/2012	12/31/2042	Swap/Vanilla			46186G-AC-7	Bluemountain CLO Ltd Series 2012-1A Class B	1	14,825,273	14,562,542
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	15,414,514	15,414,514	15,002,085	12/31/2012	12/31/2042	Swap/Vanilla			09625Y-AD-3	MADISON PARK FUNDING LTD	1	15,414,514	15,002,085
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,051,951	3,051,951	3,037,349	12/31/2012	12/31/2042	Swap/Vanilla			55818V-AC-1	ARES XXVI CLO LTD	1	3,051,951	3,037,349
57629*AN1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	1,899,356	1,899,356	1,832,053	12/31/2012	12/31/2042	Swap/Vanilla			04014J-AA-2	Hillmark Funding Series 2006-1A Class A1	1	1,899,356	1,832,053
57629*AP6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	9,533,812	11,420,572	12/31/2012	12/31/2042	Swap/Vanilla	2,006,514	2,006,514	43164Q-AA-2	Callidus Debt Partners Fnd Ltd Series 5A Class A1B	1	9,533,812	9,414,058
57629*AP6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	1,285,834	1,285,834	1,284,311	12/31/2012	12/31/2042	Swap/Vanilla			13124T-AC-4	A Voce CLO, LTD.	1	1,285,834	1,284,311
57629*AP6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	5,784,906	5,784,906	5,588,312	12/31/2012	12/31/2042	Swap/Vanilla			00248P-AE-6	OZLM FUNDING LTD	1	5,784,906	5,588,312
57629*AP6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	4,011,541	4,011,541	3,775,083	12/31/2012	12/31/2042	Swap/Vanilla			67108F-AG-1	COMBOYS STADIUM LP	2	4,011,541	3,775,083
57629*AP6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	39,000,000	39,000,000	38,198,979	12/31/2012	12/31/2042	Swap/Vanilla			223611-AA-5	Sapphire Valley CDO Ltd Series 2006-1A Class B	1	39,000,000	38,198,979
57629*A04	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	37,284,731	38,620,462	12/31/2012	12/31/2042	Swap/Vanilla	2,006,514	2,006,514	80306E-AC-3	OHA Loan Funding Ltd. Series 2013-2A Class C	1	37,284,731	36,613,948
57629*A04	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	6,702,083	6,702,083	6,600,310	12/31/2012	12/31/2042	Swap/Vanilla			67104L-AC-1	GOLDENTREE LOAN OPPORTUNI	3	6,702,083	6,600,310
57629*A04	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	4,543,107	4,543,107	4,373,670	12/31/2012	12/31/2042	Swap/Vanilla			38137A-AJ-2	GOLDENTREE LOAN OPPORTUNI	1	4,543,107	4,373,670
57629*A04	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,978,521	3,978,521	4,004,995	12/31/2012	12/31/2042	Swap/Vanilla			38136G-AE-1	GOLDENTREE LOAN OPPORTUNI	1	3,978,521	4,004,995
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	22,903,592	21,702,679	12/31/2012	12/31/2042	Swap/Vanilla	2,006,514	2,006,514	BCC0XF-V8-9	ST PAUL'S CLO I B.V.	1	22,903,592	19,696,165
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	5,700,622	5,700,622	5,549,956	12/31/2012	12/31/2042	Swap/Vanilla			67706H-AG-3	OHA Loan Funding Ltd Series 2013-1A Class C	1	5,700,622	5,549,956
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	9,723,916	9,723,916	9,752,640	12/31/2012	12/31/2042	Swap/Vanilla			39808F-AC-2	Greywolf CLO Ltd Series 2014-1A Class A2	1	9,723,916	9,752,640
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,893,023	3,893,023	3,848,476	12/31/2012	12/31/2042	Swap/Vanilla			804075-AE-9	SATURN CLO LTD	1	3,893,023	3,848,476
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,543,593	3,543,593	3,732,187	12/31/2012	12/31/2042	Swap/Vanilla			80306E-AE-9	SAPPHIRE VALLEY CDO LTD	1	3,543,593	3,732,187
57629*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	3,700,000	3,700,000	3,700,781	12/31/2012	12/31/2042	Swap/Vanilla			67108B-AC-9	OZLM FUNDING LTD	1	3,700,000	3,700,781

S105.2

STATEMENT AS OF SEPTEMBER 30, 2015 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				
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*AR2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,700,000	3,564,617	12/31/2012	12/31/2042	Swap/Vanilla			24823B-AC-4	DENALI CAPITAL CLO X, LTD Cent CDO XI Limited Series 2006-11A Class A1	1	3,700,000	3,564,617
57629*AS0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	12,858,093	14,768,250	12/31/2012	12/31/2042	Swap/Vanilla		2,006,514	15134D-AA-6	Schiller Park CLO LTD Series 2007-1A Class A2	1	12,858,093	12,761,736
57629*AS0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,964,460	9,856,100	12/31/2012	12/31/2042	Swap/Vanilla			806713-AC-7	Jfin CLO Ltd Series 2013-1A Class B	1	9,964,460	9,856,100
57629*AS0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,162,818	8,738,111	12/31/2012	12/31/2042	Swap/Vanilla			46616K-AE-4	Apidos CDO Series 2013-12A Class C	1	9,162,818	8,738,111
57629*AS0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,665,390	11,104,634	12/31/2012	12/31/2042	Swap/Vanilla			03764D-AD-3	Adirondack Park CLO Ltd. Series 2013-1A Class B	1	11,665,390	11,104,634
57629*AS0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,600,000	10,446,342	12/31/2012	12/31/2042	Swap/Vanilla			006897-AE-2	Carlyle High Yield Partners Series 2006-9A Class A2	1	10,600,000	10,446,342
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	12,341,247	14,354,818	12/31/2012	12/31/2042	Swap/Vanilla		2,006,514	14309B-AJ-3	Carlyle High Yield Partners Series 2006-8A Class A1	1	12,341,247	12,348,304
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,437,892	6,422,819	12/31/2012	12/31/2042	Swap/Vanilla			14308P-AA-2	Cent CLO LP Series 2013-18A Class C1	1	6,437,892	6,422,819
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,053,529	4,684,670	12/31/2012	12/31/2042	Swap/Vanilla			15136R-AJ-4	Race Point CLO, Limited Series 2012-7A Class A	1	5,053,529	4,684,670
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,008,538	6,860,801	12/31/2012	12/31/2042	Swap/Vanilla			74982G-AC-5	Eaton Vance CDO LTD.	1	7,008,538	6,860,801
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,250,000	17,063,459	12/31/2012	12/31/2042	Swap/Vanilla			27830D-AC-4	RACE POINT CLO, LIMITED Ares XXVI CLO Ltd. Series 2013-26A Class A	1	17,250,000	17,063,459
57629*AT8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,048,738	2,947,158	12/31/2012	12/31/2042	Swap/Vanilla			74982L-AG-5	Dryden Leveraged Loan CDO Series 2006-11A Class A3	1	3,048,738	2,947,158
57629*AI1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	28,285,312	30,255,665	04/09/2013	04/09/2043	Swap/Vanilla		2,972,633	04014J-AA-2	Cavalry CLO Ltd Series 2013-3A Class B	1	28,285,312	27,283,032
57629*AI1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,934,342	3,124,618	04/09/2013	04/09/2043	Swap/Vanilla			26249W-AD-7	OAK HILL CREDIT PARTNERS	1	2,934,342	3,124,618
57629*AI1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,443,815	12,125,837	04/09/2013	04/09/2043	Swap/Vanilla			14954W-AC-0	HILDENE CLO LTD Atlas Senior Loan Fund III Ltd Series 2013-1A Class B	1	12,443,815	12,125,837
57629*AI1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,225,000	6,170,357	04/09/2013	04/09/2043	Swap/Vanilla			67106J-AG-5	Goldentree Loan Opp VII Ltd Series 2013-7A Class B	1	6,225,000	6,170,357
57629*AI1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,296,854	6,155,608	04/09/2013	04/09/2043	Swap/Vanilla			43132R-AA-9	Bluemountain CLO Ltd Series 2012-1A Class C	1	6,296,854	6,155,608
57629*AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	60,000,000	22,400,000	24,854,147	04/09/2013	04/09/2043	Swap/Vanilla		3,242,873	04941G-AC-2	Bluemountain CLO Ltd Series 2013-1A Class A2A	1	22,400,000	21,611,274
57629*AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,150,000	8,923,730	04/09/2013	04/09/2043	Swap/Vanilla			38137D-AC-1	Goldentree Loan Opportunities Series 2007-3A Class A1BS LCM Ltd Partnership Series 14A Class C	1	9,150,000	8,923,730
57629*AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,784,696	3,650,263	04/09/2013	04/09/2043	Swap/Vanilla			09625Y-AG-6	Bluemountain CLO Ltd Series 2013-1A Class A2A	1	3,784,696	3,650,263
57629*AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,000,000	22,531,651	04/09/2013	04/09/2043	Swap/Vanilla			09626U-AC-2	CALLIDUS DEBT PARTNERS CD Goldentree Loan Opportunities Series 2007-3A Class A1BS LCM Ltd Partnership Series 14A Class C	1	23,000,000	22,531,651
57629*AV3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,984,947	2,866,557	04/09/2013	04/09/2043	Swap/Vanilla			13124B-AE-6	Madison Park Funding LTD	1	2,984,947	2,866,557
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	15,934,338	18,815,253	04/09/2013	04/09/2043	Swap/Vanilla		2,936,805	38136B-AE-2	OHV LOAN FUNDING LTD Eaton Vance CDO Ltd Series 2007-10A Class B2	1	15,934,338	15,878,448
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,791,133	7,591,241	04/09/2013	04/09/2043	Swap/Vanilla			50184V-AG-9	ING Investment Management Series 2007-5A Class A1A	1	7,791,133	7,591,241
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,100,000	17,052,274	04/09/2013	04/09/2043	Swap/Vanilla			55818P-AC-4	BLUEMOUNTAIN CLO LTD.	1	17,100,000	17,052,274
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,500,000	12,484,675	04/09/2013	04/09/2043	Swap/Vanilla			50188G-AE-3	LCM LTD PARTNERSHIP	1	12,500,000	12,484,675
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,115,132	2,967,581	04/09/2013	04/09/2043	Swap/Vanilla			67104L-AB-3	OHV LOAN FUNDING LTD Eaton Vance CDO Ltd Series 2007-10A Class B2	1	3,115,132	2,967,581
57629*AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	20,327,022	22,790,394	04/09/2013	04/09/2043	Swap/Vanilla		2,936,805	27829K-AE-7	ING Investment Management Series 2007-5A Class A1A	1	20,327,022	19,853,589
57629*AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		30,952,255	30,766,973	04/09/2013	04/09/2043	Swap/Vanilla			44983W-AA-6	BLUEMOUNTAIN CLO LTD.	1	30,952,255	30,766,973
57629*AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,100,000	2,057,238	04/09/2013	04/09/2043	Swap/Vanilla			09626U-AC-2	LCM LTD PARTNERSHIP	1	2,100,000	2,057,238
57629*AY7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,118,617	3,024,932	04/09/2013	04/09/2043	Swap/Vanilla			50184V-AC-8	LCM LTD PARTNERSHIP	1	3,118,617	3,024,932

S105.3

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								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	55,000,000	21,695,963	24,628,905	04/09/2013	04/09/2043	Swap/Vanilla		2,945,255	87155M-AA-9	Symphony CLO Ltd Series 2007-5A Class A1	1	21,695,963	21,683,650
57629*AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	13,952,014	13,952,014	13,913,382	04/09/2013	04/09/2043	Swap/Vanilla			05616X-AC-6	Babson CLO Ltd 2007-1 Series 2007-1A Class A2A	1	13,952,014	13,913,382
57629*AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	4,830,354	4,830,354	4,898,831	04/09/2013	04/09/2043	Swap/Vanilla			056169-AA-3	Babson Mid-Market CLO 2007-11 Series 2007-2A Class A1	1	4,830,354	4,898,831
57629*AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	19,978,213	19,978,213	19,713,838	04/09/2013	04/09/2043	Swap/Vanilla			05617G-AB-4	Babson CLO Ltd. 2011-1 Series 2011-1A Class A2	1	19,978,213	19,713,838
57629*AU5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	16,901,875	16,901,875	16,543,181	04/09/2013	04/09/2043	Swap/Vanilla			54303P-AB-1	Longfellow Place CLO LTD Series 2013-1A Class B	1	16,901,875	16,543,181
57629*BA8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	60,000,000	37,932,106	40,660,334	04/09/2013	04/09/2043	Swap/Vanilla		3,213,006	04941G-AA-6	Atlas Senior Loan Fund III Ltd Series 2013-1A Class A	1	37,932,106	37,447,328
57629*BA8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		25,164,402	24,572,556	04/09/2013	04/09/2043	Swap/Vanilla			14310G-AA-8	Carlyle Global Market Strategies CLO 2013-3 LTD	1	25,164,402	24,572,556
57629*BB6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	55,800,000	58,024,874	04/09/2013	04/09/2043	Swap/Vanilla		2,686,898	54303P-AA-3	Longfellow Place CLO LTD Series 2013-1A Class A	1	55,800,000	55,337,976
57629*AZ4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	55,800,000	58,024,874	04/09/2013	04/09/2043	Swap/Vanilla		2,686,898	54303P-AA-3	Longfellow Place CLO LTD Series 2013-1A Class A	1	55,800,000	55,337,976
92553PA*3	Viacom, Inc. Senior Note	2	20,000,000	23,902,174	26,386,010	12/20/2013	03/20/2019	Swap/CDS Long	402,174	(30,387)	Q3915#-AB-2	Fletcher Building Intl LP/gtd Senior Note Series B	2	23,500,000	26,416,397
57629*BD2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	111,616,544	124,475,796	03/05/2014	03/05/2034	Swap/Vanilla		15,557,316	872455-AA-8	TICP CLO LTD Series 2014-1A Class A1	1	111,616,544	108,918,480
57629*BC4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	101,513,682	114,672,101	03/05/2014	03/05/2034	Swap/Vanilla		15,588,401	854432-AA-9	Stanford Street CLO, Ltd Series 2014-1A Class A	1	101,513,682	99,083,700
57629*BC4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,154,927	4,822,055	03/05/2014	03/05/2034	Swap/Vanilla			40537X-AE-5	Halcyon Loan Advisors FND LTD	1	5,154,927	4,822,055
57629*BE0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	163,962,014	184,920,056	05/19/2014	05/19/2044	Swap/Vanilla		24,138,810	09627L-AA-5	Bluemountain CLO Ltd Series 2014-1A Class A	1	163,962,014	160,781,246
57629*BF7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	85,109,097	98,116,975	05/19/2014	05/19/2034	Swap/Vanilla		14,916,983	43132R-AA-9	Hildene CLO Ltd Series 2013-1A Class A	1	85,109,097	83,199,992
57629*BF7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		40,656,086	38,072,866	05/19/2014	05/19/2034	Swap/Vanilla			49638W-AD-8	Kingsland Ltd Series 2013-6A Class B	1	40,656,086	38,072,866
57629*BF7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,180,790	12,780,898	05/19/2014	05/19/2034	Swap/Vanilla			26249E-AC-9	Dryden Senior Loan Fund Series 2014-31A Class B	1	13,180,790	12,780,898
57629*BG5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	156,000,000	180,408,200	05/19/2014	05/19/2044	Swap/Vanilla		24,452,348	05363U-AC-7	Avery Point CLO Ltd Series 2014-1A Class A	1	156,000,000	155,955,852
57629*BH3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	149,750,000	173,472,796	05/19/2014	05/19/2044	Swap/Vanilla		24,396,072	04941M-AA-3	Atlas Senior Loan Fund Ltd Series 2014-1A Class A	1	149,750,000	149,076,724
57629*BH3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,688,152	8,419,105	05/19/2014	05/19/2044	Swap/Vanilla			03765D-AE-0	Apidos CDO Series 2014-18A Class B	1	8,688,152	8,419,105
57629*BJ9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	142,468,853	161,537,219	05/19/2014	05/19/2044	Swap/Vanilla		24,010,179	49638W-AB-2	Kingsland Ltd Series 2013-6A Class A1	1	142,468,853	137,527,040
57629*BJ9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,435,794	4,366,395	05/19/2014	05/19/2044	Swap/Vanilla			639107-AE-1	NAUTIQUE FUNDING LTD	1	4,435,794	4,366,395
57629*BJ9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,954,171	3,973,581	05/19/2014	05/19/2044	Swap/Vanilla			82835A-AE-6	SILVERADO CLO LTD	1	3,954,171	3,973,581
57629*BJ9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,879,742	3,918,968	05/19/2014	05/19/2044	Swap/Vanilla			50182T-AE-1	LCM LTD PARTNERSHIP	1	3,879,742	3,918,968
57629*BK6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	144,792,060	165,527,126	05/19/2014	05/19/2044	Swap/Vanilla		24,010,179	49638Y-AA-0	Kingsland Ltd Series 2014-7A Class A	1	144,792,060	141,516,947
57629*BK6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,645,114	18,085,566	05/19/2014	05/19/2044	Swap/Vanilla			36320D-AC-2	Galaxy CLO Ltd Series 2014-17A Class B	1	18,645,114	18,085,566
57629*BL4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	40,743,574	63,646,894	05/19/2014	05/19/2044	Swap/Vanilla		24,074,494	36248M-AA-5	GT Loan Financing Ltd. Series 2013-1A Class A	1	40,743,574	39,572,400
57629*BL4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		77,000,000	76,217,988	05/19/2014	05/19/2044	Swap/Vanilla			46617N-AA-5	JFIN CLO Ltd Series 2014-II Ltd Senior Note Class A-1 144A	1	77,000,000	76,217,988
57629*BL4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		32,546,777	31,569,056	05/19/2014	05/19/2044	Swap/Vanilla			50184V-AC-8	LCM LTD Partnership	1	32,546,777	31,569,056
57629*BL4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		1,757,924	1,668,373	05/19/2014	05/19/2044	Swap/Vanilla			87159F-AB-8	SYMPHONY CLO LTD	1	1,757,924	1,668,373
57629*BM2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	122,256,621	143,762,840	05/19/2014	05/19/2044	Swap/Vanilla		24,090,573	126612-AA-8	CVP Cascade Clo Ltd Series 2013-CLO1 Class A1	1	122,256,621	119,672,267

S105.4

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*BM2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		32,893,675	32,294,402	05/19/2014	05/19/2044	Swap/Vanilla			38137L-AA-7	Goldentree Loan Opportunities Series 2014-8A Class A	1	32,893,675	32,294,402
57629*BNO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	135,000,000	111,784,722	131,440,966	05/19/2014	05/19/2044	Swap/Vanilla		22,130,116	48274L-AA-9	KVK CLO LTD Series 2014-1A Class A1	1	111,784,722	109,310,850
57629*BNO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		33,480,135	32,623,512	05/19/2014	05/19/2044	Swap/Vanilla			48274L-AC-5	KVK CLO LTD Series 2014-1A Class B	1	33,480,135	32,623,512
57629*BP5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	85,000,000	94,561,409	104,216,696	05/09/2014	05/09/2034	Swap/Vanilla		11,598,542	67108L-AA-1	Ozlm Ltd Series 2014-6A Class A1	1	94,561,409	92,618,154
57629*BQ3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	60,000,000	67,561,861	76,507,470	06/05/2014	06/05/2044	Swap/Vanilla		10,942,021	48274H-AA-8	KVK CLO Ltd Series 2013-2A Class A	1	67,561,861	65,565,449
57629*BR1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	131,482,931	148,277,516	07/22/2014	07/22/2044	Swap/Vanilla		19,446,346	126611-AA-0	CVP CASCADE CLO LTD	1	131,482,931	128,831,170
57629*BT7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	24,273,772	43,244,016	07/22/2014	07/22/2044	Swap/Vanilla		19,459,800	126611-AA-0	CVP CASCADE CLO LTD	1	24,273,772	23,784,216
57629*BT7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,521,762	22,557,434	07/22/2014	07/22/2044	Swap/Vanilla			17178N-AC-3	COMMERCIAL INDUSTRIAL FINANCE	1	22,521,762	22,557,434
57629*BT7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		39,106,390	38,206,338	07/22/2014	07/22/2044	Swap/Vanilla			87159F-AA-0	SYMPHONY CLO LTD	1	39,106,390	38,206,338
57629*BT7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		25,381,170	24,729,625	07/22/2014	07/22/2044	Swap/Vanilla			14954W-AA-4	CAVALRY CLO I LTD	1	25,381,170	24,729,625
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,725,515	7,516,468	04/09/2013	04/09/2043	Swap/Vanilla			26249B-AA-9	DRYDEN XXIV SENIOR LOAN FUND	1	7,725,515	7,516,468
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,235,109	2,242,559	04/09/2013	04/09/2043	Swap/Vanilla			26249K-AE-1	DRYDEN SENIOR LOAN FUND	1	2,235,109	2,242,559
57629*AX9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,500,000	7,499,963	04/09/2013	04/09/2043	Swap/Vanilla			26250J-AB-6	DRYDEN XXIV SENIOR LOAN FUND	1	7,500,000	7,499,963
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	38,852,070	57,526,190	07/22/2014	07/22/2044	Swap/Vanilla		19,459,800	87247C-AA-1	TIOP CLO LTD	1	38,852,070	38,066,390
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,987,750	8,812,841	07/22/2014	07/22/2044	Swap/Vanilla			67590B-AA-8	OCTAGON INV PRARTNERS XVI LTD	1	8,987,750	8,812,841
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		25,000,000	24,755,350	07/22/2014	07/22/2044	Swap/Vanilla			05363U-AE-3	AVERY POINT CLO LTD.	1	25,000,000	24,755,350
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		25,369,812	24,602,025	07/22/2014	07/22/2044	Swap/Vanilla			09627L-AC-1	BLUEMOUNTAIN CLO LTD.	1	25,369,812	24,602,025
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,284,796	9,770,320	07/22/2014	07/22/2044	Swap/Vanilla			55818K-AG-6	MADISON PARK FUNDING LTD	1	10,284,796	9,770,320
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,382,904	4,288,990	07/22/2014	07/22/2044	Swap/Vanilla			03765L-AG-7	APIDOS CLO XX	1	4,382,904	4,288,990
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,269,332	4,455,522	07/22/2014	07/22/2044	Swap/Vanilla			05617L-AD-9	BABSON CLO LTD	1	4,269,332	4,455,522
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,795,173	4,222,237	07/22/2014	07/22/2044	Swap/Vanilla			43164Q-AC-8	HILLMARK FUNDING	1	3,795,173	4,222,237
57629*BU4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,900,000	5,884,164	07/22/2014	07/22/2044	Swap/Vanilla			87159F-AC-7	SYMPHONY CLO LTD	1	5,900,000	5,884,164
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	25,016,895	43,877,692	07/22/2014	07/22/2044	Swap/Vanilla		19,405,984	82842B-AA-0	SILVERMORE CLO LTD.	1	25,016,895	24,471,708
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		24,592,092	23,781,924	07/22/2014	07/22/2044	Swap/Vanilla			03764D-AB-7	APIDOS CDO I	1	24,592,092	23,781,924
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,610,718	21,819,292	07/22/2014	07/22/2044	Swap/Vanilla			49638W-AE-6	KINGSLAND LTD	1	22,610,718	21,819,292
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		20,574,658	19,600,120	07/22/2014	07/22/2044	Swap/Vanilla			67104L-AB-3	OHA LOAN FUNDING LTD	1	20,574,658	19,600,120
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,495,730	23,122,799	07/22/2014	07/22/2044	Swap/Vanilla			09627R-AA-2	BLUEMOUNTAIN CLO LTD.	1	23,495,730	23,122,799
57629*BV2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,000,000	14,830,200	07/22/2014	07/22/2044	Swap/Vanilla			05363U-AJ-2	AVERY POINT CLO LTD.	1	15,000,000	14,830,200
57629*BWO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	23,492,614	42,567,394	07/22/2014	07/22/2044	Swap/Vanilla		19,419,438	67590R-AC-9	OCTAGON LOAN FUNDING, LTD.	1	23,492,614	23,147,956
57629*BWO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,423,652	22,878,971	07/22/2014	07/22/2044	Swap/Vanilla			38137D-AA-5	GOLDENTREE LOAN OPPORTUNITIES VII, LIMITED	1	23,423,652	22,878,971
57629*BWO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,867,723	22,051,053	07/22/2014	07/22/2044	Swap/Vanilla			67108F-AA-4	OZLM FUNDING LTD	1	22,867,723	22,051,053

S105.5

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*B1W0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,400,000	21,704,659	07/22/2014	07/22/2044	Swap/Vanilla			053635-AC-2	AVERY POINT II CLO, LIMITED	1	22,400,000	21,704,659
57629*B1W0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,228,909	21,501,568	07/22/2014	07/22/2044	Swap/Vanilla			50183J-AB-8	LGM LTD PARTNERSHIP	1	22,228,909	21,501,568
57629*B1W0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		20,245,153	19,682,660	07/22/2014	07/22/2044	Swap/Vanilla			43132R-AC-5	HILDENE CLO LTD	1	20,245,153	19,682,660
57629*B1X8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	30,000,000	22,000,000	26,059,790	08/18/2014	08/18/2044	Swap/Vanilla		4,268,460	72349B-AC-8	PINNACLE PARK CLO, LTD.	1	22,000,000	21,791,330
57629*B1X8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,574,473	12,739,432	08/18/2014	08/18/2044	Swap/Vanilla			87155F-AL-0	SYMPHONY CLO LTD	1	12,574,473	12,739,432
57629*B2Z3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	20,052,967	26,161,743	08/27/2014	08/27/2044	Swap/Vanilla		6,723,714	26249G-AB-6	DRYDEN XXIV SENIOR LOAN FUND	1	20,052,967	19,438,029
57629*B2Z3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		19,945,174	19,295,660	08/27/2014	08/27/2044	Swap/Vanilla			872455-AE-0	TICP CLO LTD	1	19,945,174	19,295,660
57629*B2Z3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,000,000	12,935,559	08/27/2014	08/27/2044	Swap/Vanilla			50183U-AH-0	LGM LTD PARTNERSHIP	1	13,000,000	12,935,559
57629*CA7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	19,444,622	25,675,570	08/27/2014	08/27/2044	Swap/Vanilla		6,745,293	38137L-AJ-8	GOLDENTREE LOAN OPPORTUNITIES	1	19,444,622	18,930,277
57629*CA7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		19,441,350	19,080,900	08/27/2014	08/27/2044	Swap/Vanilla			67108L-AC-7	OZLM LTD	1	19,441,350	19,080,900
57629*CA7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,900,000	18,892,062	08/27/2014	08/27/2044	Swap/Vanilla			74982N-AB-2	RACE POINT CLO, LIMITED	1	18,900,000	18,892,062
57629*CB5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	18,650,000	25,207,793	08/27/2014	08/27/2044	Swap/Vanilla		6,691,346	05363X-AE-7	AVERY POINT CLO LTD.	1	18,650,000	18,516,447
57629*CB5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,932,868	18,391,538	08/27/2014	08/27/2044	Swap/Vanilla			03765D-AC-4	APIDOS CDO	1	18,932,868	18,391,538
57629*CB5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,500,000	18,200,430	08/27/2014	08/27/2044	Swap/Vanilla			04941M-AB-1	ATLAS SENIOR LOAN FUND, LTD.	1	18,500,000	18,200,430
57629*CC3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	50,000,000	18,500,000	24,966,178	08/27/2014	08/27/2044	Swap/Vanilla		6,653,583	67106J-AE-0	OAK HILL CREDIT PARTNERS LTD	1	18,500,000	18,312,595
57629*CC3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,722,009	18,041,311	08/27/2014	08/27/2044	Swap/Vanilla			49638Y-AC-6	KINGSLAND LTD	1	18,722,009	18,041,311
57629*CC3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,362,611	18,137,722	08/27/2014	08/27/2044	Swap/Vanilla			04015B-AC-4	ARES IIR CLO LTD.	1	18,362,611	18,137,722
57629*CD1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	30,000,000	18,496,760	21,976,029	09/04/2014	09/04/2044	Swap/Vanilla		3,905,526	09626Q-AC-1	BLUEMOUNTAIN CLO LTD.	1	18,496,760	18,070,503
57629*CD1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,777,543	16,154,127	09/04/2014	09/04/2044	Swap/Vanilla			14954T-AC-7	CAVALRY CLO I LTD	1	16,777,543	16,154,127
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	43,333,671	63,006,534	09/08/2014	09/08/2044	Swap/Vanilla		20,032,818	675919-AA-2	OCTAGON INV PARTNERS XI LTD	1	43,333,671	42,973,716
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		63,514,047	62,108,438	09/08/2014	09/08/2044	Swap/Vanilla			48274L-AA-9	KVK CLO LTD	1	63,514,047	62,108,438
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		25,887,889	25,810,474	09/08/2014	09/08/2044	Swap/Vanilla			40536Y-AC-8	HALCYON LOAN INVESTORS CLO LTD	1	25,887,889	25,810,474
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,911,224	6,837,285	09/08/2014	09/08/2044	Swap/Vanilla			69841B-AC-7	PANGAEA CLO LTD	1	6,911,224	6,837,285
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,803,653	3,831,686	09/08/2014	09/08/2044	Swap/Vanilla			862015-AC-8	STONEY LANE FUNDING LTD	1	3,803,653	3,831,686
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,603,990	6,276,914	09/08/2014	09/08/2044	Swap/Vanilla			806713-AD-5	SCHILLER PARK CLO LTD.	1	6,603,990	6,276,914
57629*CE9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,584,258	3,531,255	09/08/2014	09/08/2044	Swap/Vanilla			09253D-AE-6	BLACKROCK SENIOR INCOME S	1	3,584,258	3,531,255
57629*CF6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	30,000,000	18,381,500	22,811,468	09/17/2014	09/17/2044	Swap/Vanilla		5,155,790	532621-AC-3	LIMEROCK CLO	1	18,381,500	17,655,678
57629*CF6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,000,000	17,910,162	09/17/2014	09/17/2044	Swap/Vanilla			14310K-AC-5	CARLYLE GLOBAL MARKET STRATEG	1	18,000,000	17,910,162
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	55,000,000	9,694,817	15,165,436	10/06/2014	10/06/2034	Swap/Vanilla		5,250,221	73689A-AC-6	Portola CLO Ltd	1	9,694,817	9,915,215
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,213,554	8,966,303	10/06/2014	10/06/2034	Swap/Vanilla			36320D-AE-8	Galaxy CLO Ltd	1	9,213,554	8,966,303
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,803,017	13,245,614	10/06/2014	10/06/2034	Swap/Vanilla			05616V-AC-0	Babson CLO Ltd 2006-II	1	10,803,017	13,245,614

S105.6

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,300,000	9,272,705	10/06/2014	10/06/2034	Swap/Vanilla			55818R-AJ-5	Madison Park Funding Ltd	1	9,300,000	9,272,705
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,370,531	9,089,780	10/06/2014	10/06/2034	Swap/Vanilla			05617W-AC-7	Babson CLO Ltd. 2013-I	1	9,370,531	9,089,780
57629*CG4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,377,975	8,952,106	10/06/2014	10/06/2034	Swap/Vanilla			04941G-AE-8	Atlas Senior Loan Fund, Ltd.	1	9,377,975	8,952,106
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	100,000,000	17,107,274	29,231,689	10/06/2014	10/06/2044	Swap/Vanilla		12,724,851	05617Y-AC-3	Babson CLO Ltd. 2013-II	1	17,107,274	16,506,838
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		20,661,910	20,501,085	10/06/2014	10/06/2044	Swap/Vanilla			05618M-AE-4	BABSON CLO LTD	1	20,661,910	20,501,085
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,529,152	9,891,398	10/06/2014	10/06/2044	Swap/Vanilla			46186G-AG-8	INWOOD PARK CDO LTD	1	9,529,152	9,891,398
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,235,988	9,245,181	10/06/2014	10/06/2044	Swap/Vanilla			09627R-AE-4	BLUEMOUNTAIN CLO LTD	1	9,235,988	9,245,181
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,300,000	5,238,515	10/06/2014	10/06/2044	Swap/Vanilla			67572N-AW-6	OCTAGON INVESTMENT PARTNERS	1	5,300,000	5,238,515
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,451,907	12,972,363	10/06/2014	10/06/2044	Swap/Vanilla			05618D-AC-8	Babson CLO Ltd	1	13,451,907	12,972,363
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,008,239	11,682,411	10/06/2014	10/06/2044	Swap/Vanilla			00248P-AC-0	A Voce CLO, Ltd.	1	12,008,239	11,682,411
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,463,520	10,256,032	10/06/2014	10/06/2044	Swap/Vanilla			93677P-AB-7	Wasatch CLO Ltd	1	10,463,520	10,256,032
57629*CH2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,500,000	11,396,477	10/06/2014	10/06/2044	Swap/Vanilla			87159Q-AJ-7	Symphony CLO Ltd	1	11,500,000	11,396,477
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	175,000,000	60,000,000	76,892,624	10/10/2014	10/10/2044	Swap/Vanilla		19,394,204	67332F-AD-5	RRPF ENGINE LEASING LTD	1	60,000,000	57,498,420
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		26,441,893	26,361,000	10/10/2014	10/10/2044	Swap/Vanilla			629394-AA-5	NTC CAPITAL I	2	26,441,893	26,361,000
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		20,553,109	18,220,034	10/10/2014	10/10/2044	Swap/Vanilla			230000-AB-7	CULLEN/FROST CAPITAL TRUST	2	20,553,109	18,220,034
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		59,640,402	59,775,900	10/10/2014	10/10/2044	Swap/Vanilla			63534P-AF-4	NATIONAL CITY BANK, CLEVELAND	1	59,640,402	59,775,900
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		1,793,277	1,774,982	10/10/2014	10/10/2044	Swap/Vanilla			09627L-AJ-6	BlueMountain CLO Ltd.	1	1,793,277	1,774,982
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,417,911	4,392,741	10/10/2014	10/10/2044	Swap/Vanilla			09627V-AG-0	BlueMountain CLO Ltd.	1	4,417,911	4,392,741
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,095,459	3,051,003	10/10/2014	10/10/2044	Swap/Vanilla			05617Y-AG-4	Babson CLO Ltd. 2013-II	1	3,095,459	3,051,003
57629*CJ8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,631,491	6,520,698	10/10/2014	10/10/2044	Swap/Vanilla			09625J-AF-1	BlueMountain CLO Ltd.	1	6,631,491	6,520,698
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	13,341,466	26,829,945	11/04/2014	11/04/2044	Swap/Vanilla		13,827,592	86482B-AC-5	SUGAR CREEK CLO LTD	1	13,341,466	13,002,353
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,222,876	12,830,597	11/04/2014	11/04/2044	Swap/Vanilla			12627U-AB-7	COA SUMMIT CLO LTD.	1	13,222,876	12,830,597
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,924,694	12,672,038	11/04/2014	11/04/2044	Swap/Vanilla			69688X-AC-5	PALMER SQUARE CLO LTD	1	12,924,694	12,672,038
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,500,000	12,070,238	11/04/2014	11/04/2044	Swap/Vanilla			26251B-AC-0	DRYDEN XXIV SENIOR LOAN F	1	12,500,000	12,070,238
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,045,153	6,014,927	11/04/2014	11/04/2044	Swap/Vanilla			20779M-AE-8	CONNECTICUT VALLEY STR CD	1	6,045,153	6,014,927
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,834,225	13,278,843	11/04/2014	11/04/2044	Swap/Vanilla			291086-AB-2	EMERSON PLACE CLO LTD	1	12,834,225	13,278,843
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,125,000	12,050,662	11/04/2014	11/04/2044	Swap/Vanilla			14309Q-AU-5	CARLYLE GLOBAL MARKET STR	1	12,125,000	12,050,662
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,580,910	13,069,033	11/04/2014	11/04/2044	Swap/Vanilla			33842R-AB-9	FLAGSHIP CLO	1	12,580,910	13,069,033
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,462,079	6,390,428	11/04/2014	11/04/2044	Swap/Vanilla			673898-AC-6	OAKTREE CLO LTD	1	6,462,079	6,390,428
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,816,935	6,800,911	11/04/2014	11/04/2044	Swap/Vanilla			46616A-AE-6	JFIN CLO LTD	1	6,816,935	6,800,911
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,895,660	5,985,807	11/04/2014	11/04/2044	Swap/Vanilla			38136G-AD-3	GOLDENTREE LOAN OPPORTUNI	1	5,895,660	5,985,807

S105.7

STATEMENT AS OF SEPTEMBER 30, 2015 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				
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*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,147,662	3,314,843	11/04/2014	11/04/2044	Swap/Vanilla			862015-AC-8	STONEY LANE FUNDING LTD	1	3,147,662	3,314,843
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,450,134	3,377,626	11/04/2014	11/04/2044	Swap/Vanilla			806713-AD-5	SCHILLER PARK CLO LTD.	1	3,450,134	3,377,626
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,056,971	3,314,507	11/04/2014	11/04/2044	Swap/Vanilla			09253D-AE-6	BLACKROCK SENIOR INCOME S	1	3,056,971	3,314,507
57629*CK5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,948,585	5,921,952	11/04/2014	11/04/2044	Swap/Vanilla			43132W-AE-0	HILDENE CLO LTD	1	5,948,585	5,921,952
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	14,014,402	27,548,360	11/04/2014	11/04/2044	Swap/Vanilla		13,854,678	09627D-AC-9	BLUEMOUNTAIN CLO LTD.	1	14,014,402	13,693,682
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,032,607	13,885,614	11/04/2014	11/04/2044	Swap/Vanilla			55818R-AG-1	MADISON PARK FUNDING LTD	1	14,032,607	13,885,614
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,033,284	13,877,426	11/04/2014	11/04/2044	Swap/Vanilla			14955A-AC-7	CAVALRY CLO I LTD	1	14,033,284	13,877,426
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,059,571	13,476,293	11/04/2014	11/04/2044	Swap/Vanilla			27830B-AC-8	EATON VANCE CDO LTD.	1	14,059,571	13,476,293
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,632,309	13,473,937	11/04/2014	11/04/2044	Swap/Vanilla			38136B-AJ-1	GOLDENTREE LOAN OPPORTUNI	1	13,632,309	13,473,937
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,709,568	13,343,581	11/04/2014	11/04/2044	Swap/Vanilla			88390A-AF-7	WIND RIVER CLO LTD	1	13,709,568	13,343,581
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,600,000	13,271,057	11/04/2014	11/04/2044	Swap/Vanilla			03764Q-AC-6	APIDOS CDO I	1	13,600,000	13,271,057
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,000,235	12,534,002	11/04/2014	11/04/2044	Swap/Vanilla			00191L-AC-6	ARES IIR CLO LTD.	1	13,000,235	12,534,002
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,532,531	12,981,319	11/04/2014	11/04/2044	Swap/Vanilla			64129X-AG-4	NEUBERGER BERMAN CLO LTD	1	13,532,531	12,981,319
57629*CL3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,696,402	10,478,376	11/04/2014	11/04/2044	Swap/Vanilla			05873L-AC-0	BALLYROCK CLO 2013-1 LTD	1	10,696,402	10,478,376
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	12,830,186	26,787,882	11/04/2014	11/04/2044	Swap/Vanilla		14,071,360	67105V-AE-4	OAK HILL CREDIT PARTNERS	1	12,830,186	12,716,522
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,810,741	14,028,025	11/04/2014	11/04/2044	Swap/Vanilla			50184V-AE-4	LCM LTD PARTNERSHIP	1	14,810,741	14,028,025
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,000,000	12,729,886	11/04/2014	11/04/2044	Swap/Vanilla			33883B-AB-4	FLATIRON CLO LTD	1	13,000,000	12,729,886
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,550,000	14,349,530	11/04/2014	11/04/2044	Swap/Vanilla			09073V-AC-8	BIRCHWOOD PARK CLO, LTD.	1	14,550,000	14,349,530
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,833,206	14,325,140	11/04/2014	11/04/2044	Swap/Vanilla			38136B-AC-6	GOLDENTREE LOAN OPPORTUNI	1	13,833,206	14,325,140
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,249,883	13,293,563	11/04/2014	11/04/2044	Swap/Vanilla			398080-AC-5	GREYWOLF CLO LTD	1	13,249,883	13,293,563
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,945,588	13,785,703	11/04/2014	11/04/2044	Swap/Vanilla			04941R-AC-8	ATLAS SENIOR LOAN FUND, L	1	13,945,588	13,785,703
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,932,335	13,722,182	11/04/2014	11/04/2044	Swap/Vanilla			09627R-AC-8	BLUEMOUNTAIN CLO LTD.	1	13,932,335	13,722,182
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,227,271	7,300,299	11/04/2014	11/04/2044	Swap/Vanilla			398080-AE-1	GREYWOLF CLO LTD	1	7,227,271	7,300,299
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,515,129	5,444,644	11/04/2014	11/04/2044	Swap/Vanilla			04941G-AA-6	ATLAS SENIOR LOAN FUND, L	1	5,515,129	5,444,644
57629*CM1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,404,147	4,551,964	11/04/2014	11/04/2044	Swap/Vanilla			803066-AG-4	SAPPHIRE VALLEY CDO LTD	1	4,404,147	4,551,964
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	15,000,000	29,098,176	11/04/2014	11/04/2044	Swap/Vanilla		14,098,446	87155P-AC-8	SYMPHONY CLO LTD	1	15,000,000	14,999,730
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,000,000	14,998,350	11/04/2014	11/04/2044	Swap/Vanilla			74982D-AQ-1	RACE POINT CLO, INCORPORA	1	15,000,000	14,998,350
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,402,690	14,990,964	11/04/2014	11/04/2044	Swap/Vanilla			00900A-AB-4	AIMCO CDO	1	15,402,690	14,990,964
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,112,929	14,687,220	11/04/2014	11/04/2044	Swap/Vanilla			854432-AB-7	STANFORD STREET CLO, LTD	1	15,112,929	14,687,220
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,066,870	14,999,445	11/04/2014	11/04/2044	Swap/Vanilla			50183X-AE-1	LCM LTD PARTNERSHIP	1	15,066,870	14,999,445
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,907,503	12,541,232	11/04/2014	11/04/2044	Swap/Vanilla			803066-AE-9	SAPPHIRE VALLEY CDO LTD	1	11,907,503	12,541,232

S105.8

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,591,922	6,574,583	11/04/2014	11/04/2044	Swap/Vanilla			26249W-AB-1	DRYDEN LEVERAGED LOAN CDO	1	6,591,922	6,574,583
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,874,821	14,328,163	11/04/2014	11/04/2044	Swap/Vanilla			92912V-AC-9	VOYA CLO LTD	1	14,874,821	14,328,163
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,768,040	14,203,873	11/04/2014	11/04/2044	Swap/Vanilla			67104C-AB-3	OAK HILL CREDIT PARTNERS	1	14,768,040	14,203,873
57629*CN9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		1,764,634	1,990,996	11/04/2014	11/04/2044	Swap/Vanilla			38136T-AC-7	GOLDENTREE LOAN OPPORTUNI	1	1,764,634	1,990,996
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	18,294,186	31,794,824	11/04/2014	11/04/2044	Swap/Vanilla		14,179,702	40538C-AG-5	HALCYON LOAN ADVISORS FUN	1	18,294,186	17,615,122
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,600,000	15,977,832	11/04/2014	11/04/2044	Swap/Vanilla			05874P-AC-0	BALLYROCK LTD	1	16,600,000	15,977,832
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		16,766,247	16,093,886	11/04/2014	11/04/2044	Swap/Vanilla			04014W-AC-9	ARES IIR CLO LTD	1	16,766,247	16,093,886
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,596,044	15,607,536	11/04/2014	11/04/2044	Swap/Vanilla			14309B-AL-8	CARLYLE HIGH YIELD PARTNE	1	15,596,044	15,607,536
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,991,829	14,508,420	11/04/2014	11/04/2044	Swap/Vanilla			46617E-AC-1	JFIN CLO LTD	1	14,991,829	14,508,420
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,088,080	14,665,440	11/04/2014	11/04/2044	Swap/Vanilla			87247C-AC-7	TICP CLO LTD	1	15,088,080	14,665,440
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,322,701	12,644,021	11/04/2014	11/04/2044	Swap/Vanilla			87159F-AB-8	SYMPHONY CLO LTD	1	13,322,701	12,644,021
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,654,206	11,799,929	11/04/2014	11/04/2044	Swap/Vanilla			87154E-AC-4	SYMPHONY CLO LTD	1	11,654,206	11,799,929
57629*CP4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,975,000	13,872,060	11/04/2014	11/04/2044	Swap/Vanilla			26250C-AU-9	DRYDEN XXIII SENIOR LOAN	1	13,975,000	13,872,060
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	25,085,106	39,190,914	11/04/2014	11/04/2044	Swap/Vanilla		14,342,214	87154E-AB-6	SYMPHONY CLO LTD	1	25,085,106	24,848,700
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,404,829	22,892,521	11/04/2014	11/04/2044	Swap/Vanilla			532621-AA-7	LIMEROCK CLO	1	23,404,829	22,892,521
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		21,668,108	21,042,313	11/04/2014	11/04/2044	Swap/Vanilla			40538C-AC-4	HALCYON LOAN ADVISORS FUN	1	21,668,108	21,042,313
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,250,548	16,887,834	11/04/2014	11/04/2044	Swap/Vanilla			053633-AB-9	AVERY POINT CLO LTD	1	17,250,548	16,887,834
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,511,961	10,475,091	11/04/2014	11/04/2044	Swap/Vanilla			38136B-AE-2	GOLDENTREE LOAN OPPORTUNITIES	1	10,511,961	10,475,091
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,933,432	13,877,430	11/04/2014	11/04/2044	Swap/Vanilla			38123H-AC-8	GOLDENTREE LOAN OPPORTUNITIES	1	13,933,432	13,877,430
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,496,497	4,484,747	11/04/2014	11/04/2044	Swap/Vanilla			817176-AE-0	SENECA PARK CLO LTD	1	4,496,497	4,484,747
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,453,951	4,300,226	11/04/2014	11/04/2044	Swap/Vanilla			828428-AC-6	SILVERMORE CLO LTD	1	4,453,951	4,300,226
57629*C02	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,472,748	7,441,720	11/04/2014	11/04/2044	Swap/Vanilla			15135D-AJ-6	CENT CDO LTD	1	7,472,748	7,441,720
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	36,998,047	50,881,099	11/04/2014	11/04/2044	Swap/Vanilla		14,315,128	41332V-AA-0	HILDENE CLO LTD	1	36,998,047	36,565,971
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,984,671	4,996,610	11/04/2014	11/04/2044	Swap/Vanilla			68859G-AA-5	NORTHWOODS CAPITAL, LIMIT	1	4,984,671	4,996,610
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		30,269,221	29,633,408	11/04/2014	11/04/2044	Swap/Vanilla			64129X-AC-3	NEUBERGER BERMAN CLO LTD	1	30,269,221	29,633,408
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,224,783	21,802,501	11/04/2014	11/04/2044	Swap/Vanilla			50181G-AC-4	LOM LTD PARTNERSHIP	1	22,224,783	21,802,501
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,323,987	9,255,827	11/04/2014	11/04/2044	Swap/Vanilla			50184N-AD-4	LOM LTD PARTNERSHIP	1	9,323,987	9,255,827
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,720,153	4,620,870	11/04/2014	11/04/2044	Swap/Vanilla			26249B-AE-1	DRYDEN XXIV SENIOR LOAN FUND	1	4,720,153	4,620,870
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,769,420	4,533,808	11/04/2014	11/04/2044	Swap/Vanilla			398079-AE-3	GREYWOLF CLO LTD	1	4,769,420	4,533,808
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,487,753	4,494,178	11/04/2014	11/04/2044	Swap/Vanilla			14310V-AE-7	CARLYLE GLOBAL MARKET STR	1	4,487,753	4,494,178
57629*CRO	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,369,305	4,495,506	11/04/2014	11/04/2044	Swap/Vanilla			69841B-AE-3	PANGAEA CLO LTD	1	4,369,305	4,495,506

S105.9

STATEMENT AS OF SEPTEMBER 30, 2015 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				
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*CR0	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,475,601	4,354,453	11/04/2014	11/04/2044	Swap/Vanilla			92914R-AG-7	VOYA CLO LTD	1	4,475,601	4,354,453
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	65,000,000	79,173,649	11/04/2014	11/04/2044	Swap/Vanilla		14,369,299	41165G-AA-7	HARBORVIEW CLO VII LTD	1	65,000,000	64,804,350
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,504,882	4,495,010	11/04/2014	11/04/2044	Swap/Vanilla			09627L-AG-2	BLUEMOUNTAIN CLO LTD	1	4,504,882	4,495,010
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,480,987	22,173,894	11/04/2014	11/04/2044	Swap/Vanilla			92914R-AA-0	VOYA CLO LTD	1	22,480,987	22,173,894
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		21,962,782	21,944,403	11/04/2014	11/04/2044	Swap/Vanilla			67706T-AA-0	OHA LOAN FUNDING LTD	1	21,962,782	21,944,403
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,753,467	6,767,321	11/04/2014	11/04/2044	Swap/Vanilla			64128Q-AE-5	NEUBERGER BERMAN CLO LTD	1	6,753,467	6,767,321
57629*CS8	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,179,721	9,129,891	11/04/2014	11/04/2044	Swap/Vanilla			26249K-AC-5	DRYDEN SENIOR LOAN FUND	1	9,179,721	9,129,891
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	21,987,951	25,209,488	12/16/2014	12/16/2044	Swap/Vanilla		6,484,607	979JXH-11-5	AUTOSTRADA WIELKOPOLSKA II S.A.	2	21,987,951	18,724,881
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,037,199	11,782,069	12/16/2014	12/16/2044	Swap/Vanilla			979JZF-11-7	WOMENS COLLEGE PARTNERSHI	2	12,037,199	11,782,069
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,198,565	8,499,754	12/16/2014	12/16/2044	Swap/Vanilla			9236QP-11-8	AUTOPISTAS METROPOLITANAS DE PUERTO RICO	2	9,198,565	8,499,754
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,430,581	10,546,645	12/16/2014	12/16/2044	Swap/Vanilla			49636R-AL-3	Kingsland Ltd	1	11,430,581	10,546,645
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,447,539	10,887,255	12/16/2014	12/16/2044	Swap/Vanilla			26249B-AC-5	Dryden Senior Loan Fund	1	11,447,539	10,887,255
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,419,766	10,735,312	12/16/2014	12/16/2044	Swap/Vanilla			05874P-AE-6	Ballyrook CLO 2013-1 Ltd.	1	11,419,766	10,735,312
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,530,856	9,294,664	12/16/2014	12/16/2044	Swap/Vanilla			92912V-AG-0	VOYA CLO LTD	1	9,530,856	9,294,664
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,950,000	10,488,644	12/16/2014	12/16/2044	Swap/Vanilla			67590B-AC-4	Octagon Investment Partners XVI, Ltd.	1	10,950,000	10,488,644
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,073,691	10,928,643	12/16/2014	12/16/2044	Swap/Vanilla			05617L-AB-3	Babson CLO Ltd. 2012-1	1	11,073,691	10,928,643
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,142,826	10,841,174	12/16/2014	12/16/2044	Swap/Vanilla			46617N-AC-1	JFIN CLO Ltd	1	11,142,826	10,841,174
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,880,984	10,803,348	12/16/2014	12/16/2044	Swap/Vanilla			46616A-AJ-5	JFIN CLO Ltd	1	10,880,984	10,803,348
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,700,209	10,364,854	12/16/2014	12/16/2044	Swap/Vanilla			50181G-AE-0	LOM Ltd Partnership	1	10,700,209	10,364,854
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,005,467	5,861,488	12/16/2014	12/16/2044	Swap/Vanilla			27830D-AE-0	EATON VANCE CDO LTD.	1	6,005,467	5,861,488
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,432,150	7,008,581	12/16/2014	12/16/2044	Swap/Vanilla			14310G-AG-5	CARLYLE GLOBAL MARKET STR	1	7,432,150	7,008,581
57629*CX7	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,850,000	3,788,589	12/16/2014	12/16/2044	Swap/Vanilla			67572N-BA-3	OCTAGON INVESTMENT PARTNE	1	3,850,000	3,788,589
57629*CT6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	150,000,000	142,097,089	128,083,126	12/16/2014	12/16/2044	Swap/Vanilla		6,158,708	77277L-GO-1	RockaII CLO BV	1	142,097,089	121,924,418
57629*CT6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,000,000	8,769,123	12/16/2014	12/16/2044	Swap/Vanilla			05617W-AE-3	BABSON CLO LTD	1	9,000,000	8,769,123
57629*CT6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,138,729	6,826,487	12/16/2014	12/16/2044	Swap/Vanilla			46617E-AE-7	JFIN CLO LTD	1	7,138,729	6,826,487
57629*CT6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,992,884	6,954,577	12/16/2014	12/16/2044	Swap/Vanilla			33882W-AE-3	FLATIRON CLO LTD	1	6,992,884	6,954,577
57629*CT6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,000,000	6,839,770	12/16/2014	12/16/2044	Swap/Vanilla			14310D-AE-7	CARLYLE GLOBAL MARKET STR	1	7,000,000	6,839,770
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	250,000,000	40,057,649	51,436,038	12/16/2014	12/16/2044	Swap/Vanilla		10,970,627	979JXQ-11-5	CONNECT PLUS M25 LTD	1	40,057,649	40,465,411
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		48,171,962	47,150,953	12/16/2014	12/16/2044	Swap/Vanilla			923RLU-11-8	AL WATHBA VEOLIA BESIX WASTE	2	48,171,962	47,150,953
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		14,000,000	13,996,192	12/16/2014	12/16/2044	Swap/Vanilla			15136G-AQ-2	CENT CLO 18 LIMITED	1	14,000,000	13,996,192
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		34,724,072	34,195,562	12/16/2014	12/16/2044	Swap/Vanilla			87247U-AC-7	TICP CLO Ltd	1	34,724,072	34,195,562

S105.10

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		19,485,404	19,309,602	12/16/2014	12/16/2044	Swap/Vanilla			67400L-AC-2	OAKTREE EIF II LTD	1	19,485,404	19,309,602
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,523,029	12,528,638	12/16/2014	12/16/2044	Swap/Vanilla			09627V-AC-9	BLUEMOUNTAIN CLO LTD	1	12,523,029	12,528,638
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,153,462	21,935,274	12/16/2014	12/16/2044	Swap/Vanilla			09627V-AA-3	BLUEMOUNTAIN CLO LTD	1	22,153,462	21,935,274
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,654,730	11,598,971	12/16/2014	12/16/2044	Swap/Vanilla			55818V-AC-1	MADISON PARK FUNDING LTD	1	11,654,730	11,598,971
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		18,652,758	18,497,077	12/16/2014	12/16/2044	Swap/Vanilla			04964W-AC-9	TRIUM CDO CORP	1	18,652,758	18,497,077
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		20,367,323	20,097,750	12/16/2014	12/16/2044	Swap/Vanilla			04964W-AA-3	TRIUM XI	1	20,367,323	20,097,750
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,295,833	12,166,641	12/16/2014	12/16/2044	Swap/Vanilla			88432D-AC-8	WIND RIVER CLO LTD	1	12,295,833	12,166,641
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,474,169	12,206,851	12/16/2014	12/16/2044	Swap/Vanilla			05618L-AB-2	BABSON CLO LTD 2013-I	1	12,474,169	12,206,851
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,152,322	11,703,007	12/16/2014	12/16/2044	Swap/Vanilla			82817R-AB-7	SILVER SPRING CLO LTD	1	12,152,322	11,703,007
57629*CI9	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,255,762	6,235,975	12/16/2014	12/16/2044	Swap/Vanilla			05616X-AJ-1	BABSON CLO LTD	1	6,255,762	6,235,975
57629*CU3	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	250,000,000	364,801,445	380,856,690	12/16/2014	12/16/2044	Swap/Vanilla		9,938,615	57542Z-AO-7	MASSMUTUAL ASSET FINANCE	1	364,801,445	370,918,075
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	200,000,000	127,596,098	127,908,070	12/16/2014	12/16/2044	Swap/Vanilla		7,516,361	77277L-BB-9	ROCKALL CLO BV	1	127,596,098	120,391,709
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		24,329,887	23,975,466	12/16/2014	12/16/2044	Swap/Vanilla			65531W-AA-8	NOMAD CLO, LTD	1	24,329,887	23,975,466
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,552,579	23,156,891	12/16/2014	12/16/2044	Swap/Vanilla			09625J-AA-2	BLUEMOUNTAIN CLO LTD	1	23,552,579	23,156,891
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		23,225,000	23,102,906	12/16/2014	12/16/2044	Swap/Vanilla			14310U-AA-7	CARLYLE GLOBAL MARKET STR	1	23,225,000	23,102,906
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		10,980,346	10,840,016	12/16/2014	12/16/2044	Swap/Vanilla			04941G-AA-6	ATLAS SENIOR LOAN FUND, LTD	1	10,980,346	10,840,016
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		17,453,761	17,143,585	12/16/2014	12/16/2044	Swap/Vanilla			095560-AC-2	BLUE HILL CLO, LTD	1	17,453,761	17,143,585
57629*CV1	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,989,220	5,177,388	12/16/2014	12/16/2044	Swap/Vanilla			38136G-AG-6	GOLDENTREE LOAN OPPORTUNI	1	4,989,220	5,177,388
12518*AP5	Credit Default Indices (CDX1231/CDX.NA.IG.23)	2	200,000,000	216,779,456	280,811,080	09/22/2014	12/20/2024	Swap/CDX Long	(2,358,439)	(5,039,000)	912810-QK-7	US Treasury 3.875% DUE 8/15/2040	1	219,137,895	285,850,080
12518*AO3	Credit Default Indices (CDX1231/CDX.NA.IG.23)	2	100,000,000	103,824,355	134,450,330	09/22/2014	12/20/2024	Swap/CDX Long	(1,179,220)	(2,519,500)	912810-QK-7	US Treasury 3.875% DUE 8/15/2040	1	105,003,575	136,969,830
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	17,944,031	10,938,005	02/05/2015	02/05/2045	Swap/Vanilla		(6,870,155)	00164M-AC-7	ALM XII, LTD	1	17,944,031	17,808,160
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		28,214,566	28,049,138	02/05/2015	02/05/2045	Swap/Vanilla			67105V-AC-8	CHA CREDIT PARTNERS IX LT	1	28,214,566	28,049,138
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		26,922,834	26,802,380	02/05/2015	02/05/2045	Swap/Vanilla			50184K-AC-2	LCM LTD PARTNERSHIP	1	26,922,834	26,802,380
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,349,318	22,088,797	02/05/2015	02/05/2045	Swap/Vanilla			93921B-AC-7	WASHINGTON MILL CLO LTD.	1	22,349,318	22,088,797
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		22,165,499	21,970,488	02/05/2015	02/05/2045	Swap/Vanilla			36319Q-AA-0	GALAXY CLO LTD	1	22,165,499	21,970,488
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,722,763	5,623,026	02/05/2015	02/05/2045	Swap/Vanilla			10302V-AC-9	BOWMAN PARK CLO, LTD.	1	5,722,763	5,623,026
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		5,401,249	5,259,632	02/05/2015	02/05/2045	Swap/Vanilla			33882U-AC-1	FLATIRON CLO LTD	1	5,401,249	5,259,632
57629*CY5	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		15,471,650	15,134,480	02/05/2015	02/05/2045	Swap/Vanilla			82842B-AA-0	SILVERMORE CLO LTD.	1	15,471,650	15,134,480
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	15,157,415	8,131,662	02/05/2015	02/05/2045	Swap/Vanilla		(6,897,398)	14311D-AC-0	CARLYLE GLOBAL MARKET STR	1	15,157,415	15,029,060
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		12,463,295	12,467,053	02/05/2015	02/05/2045	Swap/Vanilla			55818P-AE-0	MADISON PARK FUNDING LTD	1	12,463,295	12,467,053
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		11,250,000	11,215,755	02/05/2015	02/05/2045	Swap/Vanilla			38137H-AC-2	GOLDENTREE LOAN OPPORTUNI	1	11,250,000	11,215,755

S105.11

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,850,000	9,843,529	02/05/2015	02/05/2045	Swap/Vanilla			363190-AC-6	GALAXY CLO LTD	1	9,850,000	9,843,529
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,580,000	9,594,552	02/05/2015	02/05/2045	Swap/Vanilla			14311D-AE-6	CARLYLE GLOBAL MARKET STR	1	9,580,000	9,594,552
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,906,151	8,696,387	02/05/2015	02/05/2045	Swap/Vanilla			15135A-AC-7	CENT CDO LTD	1	8,906,151	8,696,387
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,214,384	8,753,478	02/05/2015	02/05/2045	Swap/Vanilla			44983W-AD-0	I N G INVESTMENT MANAGEM	1	8,214,384	8,753,478
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,146,428	8,910,471	02/05/2015	02/05/2045	Swap/Vanilla			096260-AE-7	BLUEMOUNTAIN CLO LTD.	1	9,146,428	8,910,471
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,234,265	9,114,041	02/05/2015	02/05/2045	Swap/Vanilla			33882W-AC-7	FLATIRON CLO LTD	1	9,234,265	9,114,041
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,196,510	8,761,419	02/05/2015	02/05/2045	Swap/Vanilla			09626U-AE-8	BLUEMOUNTAIN CLO LTD.	1	9,196,510	8,761,419
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,000,000	8,785,071	02/05/2015	02/05/2045	Swap/Vanilla			67104C-AC-1	OAK HILL CREDIT PARTNERS	1	9,000,000	8,785,071
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,913,149	3,825,116	02/05/2015	02/05/2045	Swap/Vanilla			55817X-AC-8	MADISON PARK FUNDING LTD	1	3,913,149	3,825,116
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		13,500,000	11,993,670	02/05/2015	02/05/2045	Swap/Vanilla			47032B-AK-7	JAMES CAMBELL COMPANY LLC	2	13,500,000	11,993,670
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,151,327	6,610,545	02/05/2015	02/05/2045	Swap/Vanilla			806713-AE-3	SCHILLER PARK CLO LTD	1	6,151,327	6,610,545
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,358,019	6,449,589	02/05/2015	02/05/2045	Swap/Vanilla			39539X-AB-1	GREENS CREEK FUNDING LTD	1	6,358,019	6,449,589
57629*CZ2	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,275,219	6,254,125	02/05/2015	02/05/2045	Swap/Vanilla			55817X-AB-0	MADISON PARK FUNDING LTD	1	6,275,219	6,254,125
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	9,000,000	1,720,299	02/05/2015	02/05/2045	Swap/Vanilla		(7,088,100)	053635-AG-3	AVERY POINT II CLO, LIMIT	1	9,000,000	8,808,399
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,174,924	8,922,249	02/05/2015	02/05/2045	Swap/Vanilla			14310M-AG-2	CARLYLE GLOBAL MARKET STR	1	9,174,924	8,922,249
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,158,856	8,860,293	02/05/2015	02/05/2045	Swap/Vanilla			03764X-AC-1	APIDOS CDO	1	9,158,856	8,860,293
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		9,152,256	8,921,142	02/05/2015	02/05/2045	Swap/Vanilla			05363X-AG-2	AVERY POINT CLO LTD.	1	9,152,256	8,921,142
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,882,195	8,666,847	02/05/2015	02/05/2045	Swap/Vanilla			50181G-AG-5	LCM LTD PARTNERSHIP	1	8,882,195	8,666,847
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,550,000	8,525,085	02/05/2015	02/05/2045	Swap/Vanilla			55952Y-AE-7	MAGNETITE VIII CLO LTD	1	8,550,000	8,525,085
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,547,031	8,320,971	02/05/2015	02/05/2045	Swap/Vanilla			00900A-AC-2	AIMCO CDO	1	8,547,031	8,320,971
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		21,879,145	21,120,224	02/05/2015	02/05/2045	Swap/Vanilla			49638W-AB-2	KINGSLAND LTD	1	21,879,145	21,120,224
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,172,338	8,300,065	02/05/2015	02/05/2045	Swap/Vanilla			861754-AE-9	STONE TOWER CLO LTD	1	8,172,338	8,300,065
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,450,713	8,028,831	02/05/2015	02/05/2045	Swap/Vanilla			24823B-AE-0	DENALI CAPITAL CLO X, LTD	1	8,450,713	8,028,831
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,159,095	8,099,330	02/05/2015	02/05/2045	Swap/Vanilla			04941M-AC-9	ATLAS SENIOR LOAN FUND, L	1	8,159,095	8,099,330
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,144,653	8,129,055	02/05/2015	02/05/2045	Swap/Vanilla			14310V-AJ-6	CARLYLE GLOBAL MARKET STR	1	8,144,653	8,129,055
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,630,269	7,828,770	02/05/2015	02/05/2045	Swap/Vanilla			431640-AB-0	HILLMARK FUNDING	1	7,630,269	7,828,770
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,373,897	7,972,622	02/05/2015	02/05/2045	Swap/Vanilla			09626Y-AE-0	BLUEMOUNTAIN CLO LTD.	1	8,373,897	7,972,622
57629*DA6	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		3,318,568	3,139,607	02/05/2015	02/05/2045	Swap/Vanilla			15015P-AB-1	CEDAR CREEK CLO, LTD.	1	3,318,568	3,139,607
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1	125,000,000	8,224,552	730,039	02/05/2015	02/05/2045	Swap/Vanilla		(7,251,558)	26249G-AC-4	DRYDEN XXIV SENIOR LOAN F	1	8,224,552	7,981,597
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,357,479	7,834,992	02/05/2015	02/05/2045	Swap/Vanilla			67108F-AC-0	OZLM FUNDING LTD	1	8,357,479	7,834,992
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,103,111	7,840,192	02/05/2015	02/05/2045	Swap/Vanilla			38137L-AE-9	GOLDENTREE LOAN OPPORTUNI	1	8,103,111	7,840,192

S105.12

STATEMENT AS OF SEPTEMBER 30, 2015 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				
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9	10	11	12	13	14	15	16
								Description	Book/Adjusted Carrying Value	Fair Value	CUSIP	Description	NAIC Designation or Other Description	Book/Adjusted Carrying Value	Fair Value
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,065,872	7,728,248	02/05/2015	02/05/2045	Swap/Vanilla			39808F-AE-8	GREYWOLF CLO I LTD	1	8,065,872	7,728,248
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		8,082,713	7,877,672	02/05/2015	02/05/2045	Swap/Vanilla			05618L-AD-8	BABSON CLO LTD. 2013-1	1	8,082,713	7,877,672
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		6,831,366	6,755,535	02/05/2015	02/05/2045	Swap/Vanilla			14309D-AA-8	CARLYLE HIGH YIELD PARTNE	1	6,831,366	6,755,535
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		26,109,663	25,601,550	02/05/2015	02/05/2045	Swap/Vanilla			67590B-AA-8	OCTAGON INV PRARTNERS XV	1	26,109,663	25,601,550
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		4,000,000	3,997,712	02/05/2015	02/05/2045	Swap/Vanilla			87158F-AA-1	SYMPHONY CLO LTD	1	4,000,000	3,997,712
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		2,582,959	2,500,375	02/05/2015	02/05/2045	Swap/Vanilla			87155P-AD-6	SYMPHONY CLO LTD	1	2,582,959	2,500,375
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,000,000	6,774,040	02/05/2015	02/05/2045	Swap/Vanilla			15136R-AE-5	CENT CLO LP	1	7,000,000	6,774,040
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		46,150,000	40,488,641	02/05/2015	02/05/2045	Swap/Vanilla			589433-G8-4	MEREDITH CORP.	2	46,150,000	40,488,641
57629*DB4	Evergreen Basket of Long Fixed Rate ABS Bank Loans and Corp Bonds	1		7,680,604	7,267,125	02/05/2015	02/05/2045	Swap/Vanilla			36248M-AB-3	GT LOAN FINANCING LTD.	1	7,680,604	7,267,125
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	135,000,000	138,329,755	150,465,330	03/20/2015	06/20/2020	Swap/CDX Long	2,319,524	680,400	912828-PX-2	US Treasury 3.625% DUE 2/15/2021	1	136,010,231	149,784,930
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	175,000,000	179,316,348	195,047,650	03/20/2015	06/20/2020	Swap/CDX Long	3,006,790	882,000	912828-PX-2	US Treasury 3.625% DUE 2/15/2021	1	176,309,558	194,165,650
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	135,000,000	138,329,755	150,465,330	03/20/2015	06/20/2020	Swap/CDX Long	2,319,524	680,400	912828-PX-2	US Treasury 3.625% DUE 2/15/2021	1	136,010,231	149,784,930
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	55,000,000	56,356,566	61,300,690	03/20/2015	06/20/2020	Swap/CDX Long	944,991	277,200	912828-PX-2	US Treasury 3.625% DUE 2/15/2021	1	55,411,575	61,023,490
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	70,000,000	71,726,133	78,019,060	03/20/2015	06/20/2020	Swap/CDX Long	1,202,310	352,800	912828-PX-2	US Treasury 3.625% DUE 2/15/2021	1	70,523,823	77,666,260
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	165,000,000	178,309,516	209,446,430	03/20/2015	06/20/2020	Swap/CDX Long	2,834,016	831,600	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	175,475,500	208,614,830
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	225,000,000	232,745,654	273,240,300	03/20/2015	06/20/2020	Swap/CDX Long	3,864,567	1,134,000	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	228,881,087	272,106,300
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	165,000,000	170,680,147	200,376,220	03/20/2015	06/20/2020	Swap/CDX Long	2,834,016	831,600	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	167,846,131	199,544,620
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	25,560,635	30,057,693	03/20/2015	06/20/2020	Swap/CDX Long	383,715	126,000	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	25,176,920	29,931,693
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	25,505,628	30,057,693	03/20/2015	06/20/2020	Swap/CDX Long	328,708	126,000	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	25,176,920	29,931,693
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	25,508,099	30,057,693	06/22/2015	06/20/2020	Swap/CDX Long	331,179	126,000	76116F-AG-2	US Treasury 0% DUE 2/15/2021	1	25,176,920	29,931,693
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	27,561,292	29,116,907	06/22/2015	06/20/2020	Swap/CDX Long	261,292	126,000	G98508-AB-9	YORKSHIRE WATER SVCS	1	27,300,000	28,990,907
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	31,549,913	33,793,590	06/22/2015	06/20/2020	Swap/CDX Long	216,913	126,000	89148B-B*-1	TORTOISE MLP FUND INC	1	31,333,000	33,667,590
File with the SVO and awaiting RSAT	Credit Default Indicies (CDXIG24/CDX.NA.IG.24)	2	25,000,000	76,892,817	77,078,006	06/22/2015	06/20/2020	Swap/CDX Long	142,817	126,000	G8228*-AK-8	SMITH & NEPHEW PLC	1	76,750,000	76,952,006
File with the SVO and awaiting RSAT	Penerbangan Malaysia BHD	1	12,000,000	13,257,320	12,968,696	09/21/2015	12/20/2015	Swap/CDS Long	(742,680)	(742,680)	41242*-AX-0	Hardwood Funding LLC Senior Secured Note Series V	1	14,000,000	13,711,376
9999999 - Totals				9,733,708,919	10,502,456,580	XXX	XXX	XXX	17,112,197	652,844,585	XXX	XXX	XXX	9,716,596,722	9,849,611,995

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STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

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	86	8,353,850,000	90	8,853,850,000	87	8,881,000,000			86	8,353,850,000
2. Add: Opened or Acquired Transactions.....	4	500,000,000	13	1,213,000,000	4	87,000,000			21	1,800,000,000
3. Add: Increases in Replication (Synthetic Asset) Transactions Statement Value.....	XXX		XXX		XXX		XXX		XXX	
4. Less: Closed or Disposed of Transactions.....			16	1,185,850,000	1	7,000,000			17	1,192,850,000
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	90	8,853,850,000	87	8,881,000,000	90	8,961,000,000			90	8,961,000,000

STATEMENT AS OF SEPTEMBER 30, 2015 OF THE Massachusetts Mutual Life Insurance Company

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.....	3,339,239,463
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance.....	.....
3.	Total (Line 1 plus Line 2).....	3,339,239,463
4.	Part D, Section 1, Column 5.....	10,232,125,399
5.	Part D, Section 1, Column 6.....	(6,892,885,936)
6.	Total (Line 3 minus Line 4 minus Line 5).....	.....
		Fair Value Check
7.	Part A, Section 1, Column 16.....	3,974,971,940
8.	Part B, Section 1, Column 13.....	.....
9.	Total (Line 7 plus Line 8).....	3,974,971,940
10.	Part D, Section 1, Column 8.....	10,900,016,314
11.	Part D, Section 1, Column 9.....	(6,925,044,374)
12.	Total (Line 9 minus Line 10 minus Line 11).....	.....
		Potential Exposure Check
13.	Part A, Section 1, Column 21.....	4,056,408,530
14.	Part B, Section 1, Column 20.....	82,273,600
15.	Part D, Section 1, Column 11.....	4,138,682,130
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	1,205,471,894	3,251,475,473
2. Cost of cash equivalents acquired	68,927,446,360	59,424,798,565
3. Accrual of discount	8,053,092	6,435,990
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	23,659	21,642
6. Deduct consideration received on disposals	67,744,485,642	61,477,259,776
7. Deduct amortization of premium	4	
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)	2,396,509,359	1,205,471,894
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	2,396,509,359	1,205,471,894