

LIFE AND ACCIDENT AND HEALTH COMPANIES - ASSOCIATION EDITION

ANNUAL STATEMENT

FOR THE YEAR ENDED DECEMBER 31, 2016 OF THE CONDITION AND AFFAIRS OF THE

MML Bay State Life Insurance Company

NAIC Group Code 0435 0435 NAIC Company Code 70416 Employer's ID Number 43-0581430

Organized under the Laws of			, State	of Domicile or Port of Er	ntry	СТ
Country of Domicile		U	Inited States of An	nerica		
Incorporated/Organized	04/01/1935			ommenced Business		07/01/1894
Statutory Home Office				(City or		
Main Administrative Office			1295 State Stre	et		
	Paringfield MA US 01111		•	ber)	/12 700 0 <i>/</i>	11
Organized under the Laws of Connecticut State of Domicile or Port of Entry CT Country of Domicile United States of America Incorporated/Organized 04/01/1935 Commenced Business 07/01/1894 Statutory Home Office 100 Bright Meadow Boulevard (Street and Number) Enfield , CT, US 06082 (Street and Number) (City or Town, State, Country and Zip Code)						
Mail Address	1295 State Stree	ıt			Springfield . MA. U	JS 01111
				(City or		
Primary Location of Books and	Records		1295 State Str	eet		
Organizate under the Laws of Connecticut United States of Dominicile or Port of Entry CT Country of Dominicial Country of Dominicial United States of America Country of Dominicial Country and Zip Code (Street and Number) (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Code Springlield, MA, US 01111 (City or Town, State, Country and Zip Co						
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tp						
	(E-IIIdii Address)				(FAX Nullio	er)
			OFFICERS			
President and Chief			OFFICERS			
Secretary	Pia Denise	Flanagan		Apointed Actuary	Do	ouglas Wright Taylor
			_			
Elizabeth Ward Chicares #	, Chief Financial Officer	Mark Douglas			Michael Robert	Fanning, Executive Vice President
						V
		DIRE	CTORS OR TE	USTEES		
			Michael Robert F	anning	Eliz	zabeth Ward Chicares #
Mark Dougi	as Roellig			_	-	
State of	Massachusetts					
		SS:				
all of the herein described assets tatement, together with related condition and affairs of the said in accordance with the NAIC A rules or regulations require direspectively. Furthermore, the exact copy (except for formattin	tes were the absolute proper exhibits, schedules and expl reporting entity as of the rep nnual Statement Instructions ferences in reporting not re scope of this attestation by t	ty of the said rep anations therein on orting period state and Accounting I elated to accounting described office	corting entity, free contained, annexe ad above, and of it Practices and Proting practices and cers also includes	and clear from any liens d or referred to, is a full a s income and deductions cedures manual except to d procedures, according the related correspondin	s or claims thereon, and true statement of therefrom for the p to the extent that: (1 to the best of the g electronic filing w	except as herein stated, and that this of all the assets and liabilities and of the eriod ended, and have been completed) state law may differ; or, (2) that state eir information, knowledge and belief, rith the NAIC, when required, that is an
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ASSETS

			Current Year		Prior Year
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	4 Net Admitted Assets
1.	Bonds (Schedule D)	310,216,806	Nonadimited 7133013	310,216,806	222,828,946
	Stocks (Schedule D):	, ,		, ,	, ,-
	2.1 Preferred stocks				
	2.2 Common stocks				
3.	Mortgage loans on real estate (Schedule B):				
•	3.1 First liens	4.007.088		4.007.088	5.847.458
	3.2 Other than first liens			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4.	Real estate (Schedule A):				
**	4.1 Properties occupied by the company (less \$				
	encumbrances)				
	4.2 Properties held for the production of income (less				
	\$encumbrances)				
	4.3 Properties held for sale (less \$				
	encumbrances)				
5.	Cash (\$(2,302,765), Schedule E - Part 1), cash equivalents				
	(\$				
	investments (\$, Schedule DA)	62,691,625		62,691,625	61,289,428
6.	Contract loans (including \$ premium notes)				
7.	Derivatives (Schedule DB)				
8.	Other invested assets (Schedule BA)				
9.	Receivables for securities				
10.	Securities lending reinvested collateral assets (Schedule DL)				
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)				
13.	Title plants less \$ charged off (for Title insurers			, ,	, ,
	only)				
14.	Investment income due and accrued				
15.	Premiums and considerations:		,	, ,	
	15.1 Uncollected premiums and agents' balances in the course of collection	1,150	477	673	1,850
	15.2 Deferred premiums and agents' balances and installments booked but				•
	deferred and not yet due (including \$				
	earned but unbilled premiums)	(2,080,053)		(2,080,053)	(2,124,980)
	15.3 Accrued retrospective premiums (\$				
	contracts subject to redetermination (\$				
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers	2,911,681		2,911,681	5,325,462
	16.2 Funds held by or deposited with reinsured companies				
	16.3 Other amounts receivable under reinsurance contracts				
17.	Amounts receivable relating to uninsured plans				
18.1	Current federal and foreign income tax recoverable and interest thereon				3,088,375
	Net deferred tax asset				
19.	Guaranty funds receivable or on deposit	198,623		198,623	214, 116
20.	Electronic data processing equipment and software				
21.	Furniture and equipment, including health care delivery assets				
	(\$				
22.	Net adjustment in assets and liabilities due to foreign exchange rates				
23.	Receivables from parent, subsidiaries and affiliates			125,904	281,646
24.	Health care (\$) and other amounts receivable				
25.	Aggregate write-ins for other than invested assets				
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)				421,257,703
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts				
28.	Total (Lines 26 and 27)	4,828,022,556	13,735,539	4,814,287,017	4,700,075,825
	DETAILS OF WRITE-INS		, , ,		
1101.	521A120 01 WHITE HO				
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)				
2501.	Totale (Emile 1101 tille 1100 pide 1100)(Emile 11 decto)				
2502.					
2503.					
2598.	Summary of remaining write-ins for Line 25 from overflow page				
2599.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)				
	, piao	<u> </u>	1	1	

LIABILITIES, SURPLUS AND OTHER FUNDS

	, and the second	1	2
1.	Aggregate reserve for life contracts \$	Current Year	Prior Year
	included in Line 6.3 (including \$122,016,560 Modco Reserve)	138,538,127	136,618,028
2.	Aggregate reserve for accident and health contracts (including \$ Modco Reserve)		
3. 4.	Liability for deposit-type contracts (Exhibit 7, Line 14, Col. 1) (including \$ Modco Reserve) Contract claims:	11,548,399	9,891,826
4.	4.1 Life (Exhibit 8, Part 1, Line 4.4, Col. 1 less sum of Cols. 9, 10 and 11)	3 824 460	6 741 511
	4.2 Accident and health (Exhibit 8, Part 1, Line 4.4, sum of Cols. 9, 10 and 11)		
5.	Policyholders' dividends \$ and coupons \$ due and unpaid (Exhibit 4,		
	Line 10)		
6.	6.1 Dividends apportioned for payment (including \$ Modco)		
	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 \$ accident and health premiums (Exhibit 1,		
	Part 1, Col. 1, sum of lines 4 and 14)	2 438	2,383
9.	Contract liabilities not included elsewhere:		
	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	14 579 621	11 172 256
	9.3 Other amounts payable on reinsurance, including \$ assumed and \$ (3,421,656)	14,370,031	11, 172,230
	ceded	(3,421,656)	798,473
	9.4 Interest maintenance reserve (IMR, Line 6)	289,594	365,578
10.	Commissions to agents due or accrued-life and annuity contracts \$267,320 accident and health	207 222	22 25-
11.	\$ and deposit-type contract funds \$ Commissions and expense allowances payable on reinsurance assumed	267,320	66,652
12.	General expenses due or accrued (Exhibit 2, Line 12, Col. 6)	11 640	399 844
	Transfers to Separate Accounts due or accrued (net) (including \$		
	allowances recognized in reserves, net of reinsured allowances)	15,996,642	16,533,168
14.	Taxes, licenses and fees due or accrued, excluding federal income taxes (Exhibit 3, Line 9, Col. 5)	199,460	234,258
	Current federal and foreign income taxes, including \$(7,233,540) on realized capital gains (losses)		
16.	Unearned investment income		
17.	Amounts withheld or retained by company as agent or trustee		
18.	Amounts held for agents' account, including \$ agents' credit balances		
19.	Remittances and items not allocated		
20. 21.	Net adjustment in assets and liabilities due to foreign exchange rates		
22.	Borrowed money \$ and interest thereon \$		
23.	Dividends to stockholders declared and unpaid		
24.	Miscellaneous liabilities:		
	24.01 Asset valuation reserve (AVR, Line 16, Col. 7)		
	24.02 Reinsurance in unauthorized and certified (\$) companies		
	24.04 Payable to parent, subsidiaries and affiliates	2 310 794	2 208 982
	24.05 Drafts outstanding		2,200,002
	24.06 Liability for amounts held under uninsured plans		
	24.07 Funds held under coinsurance		
	24.08 Derivatives		
	24.09 Payable for securities		
	24.11 Capital notes \$ and interest thereon \$		
25.	Aggregate write-ins for liabilities	187,860	515,565
26.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)	213,941,199	189,956,698
27.	From Separate Accounts Statement		
28. 29.	Total liabilities (Lines 26 and 27) Common capital stock	4,525,992,578	4,468,774,820
30.	Preferred capital stock		
31.	Aggregate write-ins for other than special surplus funds		
32.	Surplus notes		
33.	Gross paid in and contributed surplus (Page 3, Line 33, Col. 2 plus Page 4, Line 51.1, Col. 1)		
34. 35.	Aggregate write-ins for special surplus funds	142 057 225	25 063 801
	Less treasury stock, at cost:		
	36.1 shares common (value included in Line 29 \$)		
	36.2shares preferred (value included in Line 30 \$)		
	Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)	285,794,239	228,800,805
38. 39.	Totals of Lines 29, 30 and 37 (Page 4, Line 55)	288,294,439 4,814,287,017	231,301,005
აყ.	DETAILS OF WRITE-INS	4,014,201,011	4,700,075,825
2501.		140,262	297,428
2502.			218,137
2503.			
2598.			
2599. 3101.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)	187,860	515,565
3101. 3102.			
3103.			
3198.	Summary of remaining write-ins for Line 31 from overflow page		
3199.	Totals (Lines 3101 thru 3103 plus 3198)(Line 31 above)		
3401.			
3402. 3403.			
3498.	Summary of remaining write-ins for Line 34 from overflow page		
3499.	Totals (Lines 3401 thru 3403 plus 3498)(Line 34 above)		
			

SUMMARY OF OPERATIONS

		1	2
		Current Year	Prior Year
1.	Premiums and annuity considerations for life and accident and health contracts (Exhibit 1, Part 1, Line 20.4, Col. 1, less	(105 050 606)	24,468,709
_	Col. 11)	(100,000,090)	
2. 3.	Net investment income (Exhibit of Net Investment Income, Line 17)		12,852,135
4.	Amortization of Interest Maintenance Reserve (IMR, Line 5)	188 040	197,060
5.	Separate Accounts net gain from operations excluding unrealized gains or losses		
6.	Commissions and expense allowances on reinsurance ceded (Exhibit 1, Part 2, Line 26.1, Col. 1)		
7.	Reserve adjustments on reinsurance ceded	112,685,751	(15,069,413)
8.	Miscellaneous Income:		
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate	74 405 405	70 005 005
	Accounts		70,035,625
	8.2 Charges and fees for deposit-type contracts	(761,293)	(932,285)
9.	8.3 Aggregate write-ins for miscellaneous income	153,361,939	97,183,783
	Death benefits	, ,	, ,
11.	Matured endowments (excluding guaranteed annual pure endowments)		
12.	Annuity benefits (Exhibit 8, Part 2, Line 6.4, Cols. 4 + 8)		
13.	Disability benefits and benefits under accident and health contracts	364 , 151	479,467
14.	Coupons, guaranteed annual pure endowments and similar benefits		
15.	Surrender benefits and withdrawals for life contracts	49,389,269	48,806,554
16.	Group conversions		
17.	Interest and adjustments on contract or deposit-type contract funds	1,096,059	702,273
18.	Payments on supplementary contracts with life contingencies	4 000 000	4.045.000
19.	Increase in aggregate reserves for life and accident and health contracts	1,920,099	4,945,662
20. 21.	Totals (Lines 10 to 19)	90,029,043	102,372,351
۷۱.	2, Line 31, Col. 1)	2.935 769	3.399.662
22.	Commissions and expense allowances on reinsurance assumed (Exhibit 1, Part 2, Line 26.2, Col. 1)	2,000,700	,
23.	General insurance expenses (Exhibit 2, Line 10, Cols. 1, 2, 3 and 4)	7,955,012	8,068,586
24.	Insurance taxes, licenses and fees, excluding federal income taxes (Exhibit 3, Line 7, Cols. 1 + 2 + 3)	990 , 162	1,118,136
25.	Increase in loading on deferred and uncollected premiums	(792)	(556)
26.	Net transfers to or (from) Separate Accounts net of reinsurance		(45, 187, 681)
27.	Aggregate write-ins for deductions	34,553,217	62,351
28.	Totals (Lines 20 to 27)	107,492,862	69,832,849
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	45,869,077	27,350,934
30.	Dividends to policyholders	45 000 077	07.000.004
31.	Net gain from operations after dividends to policyholders and before federal income taxes (Line 29 minus Line 30)	25,634,294	27,350,934 6,658,379
32. 33.	Federal and foreign income taxes incurred (excluding tax on capital gains)	25,054,254	0,000,019
33.	(losses) (Line 31 minus Line 32)	20,234,783	20,692,555
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of		
	\$	20,356	(35,042)
35.	Net income (Line 33 plus Line 34)	20,255,139	20,657,513
	CAPITAL AND SURPLUS ACCOUNT		
36.	Capital and surplus, December 31, prior year (Page 3, Line 38, Col. 2)	231,301,005	211,693,698
	Net income (Line 35)	20,255,139	20,657,513
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$(10,350)		
	Change in net unrealized foreign exchange capital gain (loss)		
	Change in net deferred income tax		
	Change in hondomitted assets Change in liability for reinsurance in unauthorized and certified companies		
	Change in reserve on account of change in valuation basis, (increase) or decrease		
	Change in asset valuation reserve		
	Change in treasury stock (Page 3, Lines 36.1 and 36.2, Col. 2 minus Col. 1)		
	Surplus (contributed to) withdrawn from Separate Accounts during period		
47.	Other changes in surplus in Separate Accounts Statement		
48.	Change in surplus notes		
	Cumulative effect of changes in accounting principles		
50.	Capital changes:		
	50.1 Paid in		
	50.2 Transferred from surplus (Stock Dividend)		
51.	50.3 Transferred to surplus		
31.	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		
	Dividends to stockholders		
	Aggregate write-ins for gains and losses in surplus	34,663,629	
	Net change in capital and surplus for the year (Lines 37 through 53)	56,993,434	19,607,307
55.	Capital and surplus, December 31, current year (Lines 36 + 54) (Page 3, Line 38)	288,294,439	231,301,005
	DETAILS OF WRITE-INS	/4 744 000	/4 540 505
	Sub-advisory fees		
	Other miscellaneous income		608,252
	Summary of remaining write-ins for Line 8.3 from overflow page		
	T . I . (1)	(761,293)	(932,285)
	Reinsurance ceded adjustment		(502,203)
2702	Miscellaneous charges to operations	(110.412)	
	milosofianosas siargos to operations		52,001
	Summary of remaining write-ins for Line 27 from overflow page		
2799.	Totals (Lines 2701 thru 2703 plus 2798)(Line 27 above)	34,553,217	62,351
5301.	Reinsurance ceded adjustment	34,663,629	
	Summary of remaining write-ins for Line 53 from overflow page		
5399.	Totals (Lines 5301 thru 5303 plus 5398)(Line 53 above)	34,663,629	

	CASH FLOW	1	2
		Current Year	Prior Year
	Cash from Operations	(100, 400, 500)	22 222 470
	Premiums collected net of reinsurance		22,222,478
	Net investment income Miscellaneous income		58,356,708
	Total (Lines 1 through 3)		92,636,563
	Benefit and loss related payments		92,030,303
	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts		(45, 157, 205)
	Commissions, expenses paid and aggregate write-ins for deductions		40.004.000
	Dividends paid to policyholders		13,204,996
	Federal and foreign income taxes paid (recovered) net of \$		4,335,481
			64,492,250
	Total (Lines 5 through 9)		
11.	Net cash from operations (Line 4 minus Line 10)	78,725,201	28,144,313
	Cook from Investments		
12.	Cash from Investments		
	Proceeds from investments sold, matured or repaid:	47,823,746	26,695,569
	12.1 Bonds		, ,
	12.2 Stocks		711,572
	12.4 Real estate		111,072
	12.5 Other invested assets		
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments		
	12.7 Miscellaneous proceeds		499,607
	12.8 Total investment proceeds (Lines 12.1 to 12.7)		27,906,903
	Cost of investments acquired (long-term only):	43,700,433	21,900,900
	13.1 Bonds	135 100 254	104,592,416
	13.2 Stocks		
	13.3 Mortgage loans		2 304 007
	13.4 Real estate		2,094,991
	13.5 Other invested assets		
	13.6 Miscellaneous applications		
	13.7 Total investments acquired (Lines 13.1 to 13.6)	135,103,246	106,987,413
	Net increase (decrease) in contract loans and premium notes		1,586,260
	Net cash from investments (Line 12.8 minus Line 13.7 minus Line 14)		(80,666,770)
13.	Net cash nom investments (Line 12.0 minus Line 10.7 minus Line 17)	(04,004,070)	(00,000,110)
	Cash from Financing and Miscellaneous Sources		
16.	Cash provided (applied):		
	16.1 Surplus notes, capital notes		
	16.2 Capital and paid in surplus, less treasury stock		
	16.3 Borrowed funds		
	16.4 Net deposits on deposit-type contracts and other insurance liabilities		3,385,215
	16.5 Dividends to stockholders		
	16.6 Other cash provided (applied)		(309,725)
	Net cash from financing and miscellaneous sources (Lines 16.1 to 16.4 minus Line 16.5 plus Line 16.6)		3,075,490
17.	Net cash from financing and miscenarieous sources (Lines 10.1 to 10.4 fillings Line 10.5 pius Line 10.0)	7,341,000	0,070,400
	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)	1,402,197	(49,446,967)
	Cash, cash equivalents and short-term investments:	1,702,107	(10, 110,001)
	19.1 Beginning of year	61,289,428	110,736,395
	19.2 End of year (Line 18 plus Line 19.1)	62,691,625	61,289,428

Note: Supplemental disclosures of cash flow information for non-cash transactions:		
20.0001. Bond conversions and refinancing	942,855	1,717,983
20.0002. Interest capitalization for long-term debt	312	2,091

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS

		1	2	0.0 0. 0.	Ordinary	J D . L	6	Gro		Accident and Health			12
		I	2	3	Ordinary	5	ь	Gro 7	8 8	9	Accident and Health	11	Aggregate of All
				3	4	Supplementary	Credit Life (Group	Life Insurance	٥	9	Credit (Group and	11	Other Lines of
		Total	Industrial Life	Life Insurance	Individual Annuities	Contracts	and Individual)	(a)	Annuities	Group	Individual)	Other	Business
1.	Premiums and annuity considerations for life and accident and health												
	contracts	(105,853,696)		(102,342,667)	21,760			(3,532,789)					-
2.	Considerations for supplementary contracts with life contingencies	65 , 136				65 , 136							
3.	Net investment income	14,288,275		12,935,776	71,499	50,057		1,230,943					
4.	Amortization of Interest Maintenance Reserve (IMR)	188,040		160,345	1,464	1,025		25,206					
5.	Separate Accounts net gain from operations excluding unrealized gains or												
	losses												-
6.	Commissions and expense allowances on reinsurance ceded	61,254,601		55,515,873				5,738,728					
7.	Reserve adjustments on reinsurance ceded	112,685,751		122,016,560				(9,330,809)					
8.	Miscellaneous Income:												
	8.1 Fees associated with income from investment management,	71,495,125		39.600.002	617,347			31,277,776					
	administration and contract guarantees from Separate Accounts	/1,495,125		39,600,002				31,277,776					-
	8.2 Charges and fees for deposit-type contracts	(761, 293)		873.810	109.229			(1.744.332)					
	8.3 Aggregate write-ins for miscellaneous income					110 010							
9.	Totals (Lines 1 to 8.3)	153,361,939		128,759,699	821,299	116,218		23,664,723					
10.	Death benefits	40,748,262		14,303,944				26,444,318					-
11.	Matured endowments (excluding guaranteed annual pure endowments)				0 444 000								
12.	Annuity benefits	3, 111,803			3, 111,803								
13.	Disability benefits and benefits under accident and health contracts	364 , 151		364 , 151									
14.	Coupons, guaranteed annual pure endowments and similar benefits												-
15.	Surrender benefits and withdrawals for life contracts	49,389,269		44,781,383	3,882,211			725,675					
16.	Group conversions												-
17.		1,096,059		69,991	8,586	270,321		747 , 161					-
18.	Payments on supplementary contracts with life contingencies												-
19.	Increase in aggregate reserves for life and accident and health contracts	1,920,099		1,778,200	111,306			30,593					
20.	Totals (Lines 10 to 19)	96,629,643		61,297,669	7, 113, 906	270,321		27,947,747					
21.	Commissions on premiums, annuity considerations and deposit-type			4 000 070									
	contract funds (direct business only)	2,935,769		1,698,273	44,566			1, 192, 930					
22.	Commissions and expense allowances on reinsurance assumed												
23.	General insurance expenses	7,955,012		3,765,784	184,517	663		4,004,048					
24.	Insurance taxes, licenses and fees, excluding federal income taxes	990, 162		890,900	6,838	25		92,399					
25.	Increase in loading on deferred and uncollected premiums	(792)		(792)									
26.	Net transfers to or (from) Separate Accounts net of reinsurance	(35,570,149)		(13,076,447)	(7,669,564)			(14,824,138)					-
27.	Aggregate write-ins for deductions	34,553,217		34,332,674	212,711			7,832					
28.	Totals (Lines 20 to 27)	107,492,862		88,908,061	(107,026)	271,009		18,420,818					
29.	Net gain from operations before dividends to policyholders and federal	45 000 077		00 054 000	000 005	(454 704)		E 040 005					
1 .	income taxes (Line 9 minus Line 28)	45,869,077		39,851,638	928,325	(154,791)	 	5,243,905					-
30.	Dividends to policyholders												
31.		45.869.077		39.851.638	928.325	(154.791)		5.243.905					
	income taxes (Line 29 minus Line 30)	25,634,294		24,595,078	278.728	(154,791) (53,643)		5,243,905 L 814.131					-
32.	Federal income taxes incurred (excluding tax on capital gains)	20,034,294		24,090,078	210,128	(53,643)		814, 131					
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)	20.234.783		15.256.560	649.597	(101.148)		4.429.774					
	DETAILS OF WRITE-INS	20,204,700		10,200,000	043,337	(101,140)		4,423,114					
00.004	DETAILS OF WRITE-INS Sub-advisory fees	(1,744,328)						(1,744,328)					
	Other miscellaneous income	(1,744,328)			109,229			(4)					-
		963,035		8/3,810	109,229			(4)					-
08.303													
08.398	Summary of remaining write-ins for Line 8.3 from overflow page	(761, 293)		873.810	109,229			(1.744.332)					
	. Totals (Lines 08.301 thru 08.303 plus 08.398) (Line 8.3 above)				109,229			(1,744,332)					
2701.	Reinsurance ceded adjustment	34,663,629		34,663,629	040 744			7 000					
2702.	Miscellaneous charges to operations	(110,412)		(330,955)	212,711			7,832					-
2703.													
2798.	Summary of remaining write-ins for Line 27 from overflow page	04 550 047		04 000 074	040 744			7 000					-
2799.	Totals (Lines 2701 thru 2703 plus 2798) (Line 27 above)	34,553,217		34,332,674	212,711			7,832					
	(a) Includes the following amounts for FEGLI/SGLI: Line 1	, Line 10		, Line 16 .		, Line 23		, Line 24					

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR

ANALIOIO										
	1	2	_	Ordinary				Group		
	Total	Industrial Life	3 Life Insurance	4 Individual Annuities	5 Supplementary Contracts	Credit Life (Group and Individual)	7 Life Insurance	8 Annuities		
	Total	industrial Life	Life insurance	Individual Annulles	Contracts	marviduai)	Life insurance	Ailiuities		
Involving Life or Disability Contingencies (Reserves)										
(Net of Reinsurance Ceded)										
(
Reserve December 31, prior year	136,618,028		131,596,401	3,632,420			1,389,207			
2. Tabular net premiums or considerations	16, 161, 303		19,673,893	21,760			(3,534,350)			
Present value of disability claims incurred					XXX					
4. Tabular interest	5, 159,843		5,068,350	91,493						
Tabular less actual reserve released	(1,112,648)			(1,112,648)						
Increase in reserve on account of change in valuation basis	, , ,			, , , ,						
7. Other increases (net)			1,564,246	(84,376)			9,768,248			
8. Totals (Lines 1 to 7)	168,074,644		157,902,890	2,548,649			7,623,105			
9. Tabular cost	39,504,103		19,052,420		XXX		20,451,683			
10. Reserves released by death	24,244,393		3,792,157	xxx	xxx		20,452,236	xxx		
11. Reserves released by other terminations (net)	47,714,997		43,103,745	3,885,577			725,675			
• • • • • • • • • • • • • • • • • • • •			, ,	, ,						
12. Annuity, supplementary contract and disability payments involving life contingencies	2,958,343		364 , 151	2,594,192						
13. Net transfers to or (from) Separate Accounts	(84,885,319)		(41,784,184)	(7,674,845)			(35,426,290)			
14. Total Deductions (Lines 9 to 13)	29,536,517		24,528,289	(1,195,076)			6,203,304			
15. Reserve December 31, current year	138,538,127		133,374,601	3,743,725			1,419,801			

EXHIBIT OF NET INVESTMENT INCOME

			1	2
		Colle	ected During Year	Earned During Yea
1.	U.S. Government bonds	(a) .	697,072	745, 18
1.1	Bonds exempt from U.S. tax			
1.2	Other bonds (unaffiliated)			8,413,61
1.3	Bonds of affiliates	(a) .	46,501	57,81
2.1	Preferred stocks (unaffiliated)	(b) .		
2.11	Preferred stocks of affiliates	(b) .		
2.2	Common stocks (unaffiliated)			
2.21	Common stocks of affiliates			
3.	Mortgage loans	(c) .	234,289	244,32
4.	Real estate	(d)		
5	Contract loans		5, 125, 623	5, 105, 22
6	Cash, cash equivalents and short-term investments		355,696	355,69
7	Derivative instruments	(f) .		,
8.	Other invested assets			
9.	Aggregate write-ins for investment income			
10.	Total gross investment income		14.604.477	
11.	Investment expenses		, ,	
12.	Investment taxes, licenses and fees, excluding federal income taxes			
13.	Interest expense			
14.	Depreciation on real estate and other invested assets			
15.	Aggregate write-ins for deductions from investment income			\ /
16.	Total deductions (Lines 11 through 15)			634 13
17.	Net investment income (Line 10 minus Line 16)			14.288.27
17.	DETAILS OF WRITE-INS			11,200,21
0901.	Miscellaneous income		558	55
0902.	miscerialicus income			
0902.				
)903.)998.	Cummon of various suits in fact tips 0 from a soften page			
)998.)999.	Summary of remaining write-ins for Line 9 from overflow page		558	
	Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above)			
1501.				
1502.				
1503.				
1598.	Summary of remaining write-ins for Line 15 from overflow page			
1599.	Totals (Lines 1501 thru 1503 plus 1598) (Line 15, above)			

(a) Includes \$	498,623	accrual of discount less \$477,316	amortization of premium and less \$159,028	paid for accrued interest on purchases.
(b) Includes \$		accrual of discount less \$	amortization of premium and less \$	paid for accrued dividends on purchases
(c) Includes \$	1,411	accrual of discount less \$12,026	amortization of premium and less \$	paid for accrued interest on purchases.
(d) Includes \$		for company's occupancy of its own building	s; and excludes \$ interest on encur	mbrances.
(e) Includes \$	352,973	accrual of discount less \$	amortization of premium and less \$	paid for accrued interest on purchases.
(f) Includes \$		accrual of discount less \$	amortization of premium.	
	and Separate Acco		investment taxes, licenses and fees, excluding fede	ral income taxes, attributable to
(h) Includes \$		interest on surplus notes and \$	interest on capital notes.	
(i) Includes \$		depreciation on real estate and \$	depreciation on other invested assets	

EXHIBIT OF CAPITAL GAINS (LOSSES)

		1	2	3	4	5
		ı	2	3	4	5
				Total Realized	Change in	Change in Unrealized
		Realized Gain (Loss)	Other Realized	Capital Gain (Loss)	Unrealized	Foreign Exchange
		On Sales or Maturity	Adjustments	(Columns 1 + 2)	Capital Gain (Loss)	Capital Gain (Loss)
1.	U.S. Government bonds	7,752		7,752		
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)	120,663	(2,661)	118,002	(467)	
1.3	Bonds of affiliates		(6,452)	(6,452)	(29, 106)	
2.1	Preferred stocks (unaffiliated)					
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)					
2.21	Common stocks of affiliates					
3.	Mortgage loans					
4.	Real estate					
5.	Contract loans					
6.	Cash, cash equivalents and short-term investments	(156)		(156)		
7.	Derivative instruments					
8.	Other invested assets					
9.	Aggregate write-ins for capital gains (losses)	114,063		114,063		
10.	Total capital gains (losses)	242,322	(9, 113)		(29,573)	
	DETAILS OF WRITE-INS					
0901.	Miscellaneous gain and loss	114,063		114,063		
0902.						
0903.						
0998.	Summary of remaining write-ins for Line 9 from overflow page					
0999.	Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above)	114,063		114,063		

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ANNUAL STATEMENT FOR THE YEAR 2016 OF THE MML Bay State Life Insurance Company

EXHIBIT - 1 PART 1 - PREMIUMS AND ANNUITY CONSIDERATIONS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

FIRST YEAR (other than single)	EXHIBIT - 1 PART 1								IAN UEALIT		13		
First First First		1	2			5				Accident and Health		11	
Total Industrial Life Life Insurance Annualise				3		0 "11" (0	6	7	8		10	Aggregate of All	
### FIRST VEAR (other than single) 1. Uncollected 2. Deletered and accorated 3. Deletered and accorated 3. Seminusance assumed 3. Seminusance assumed 3. Seminusance assumed 4. Seminusance assumed 5. Line 3. Line 4. Line 4. Line 5.		Total	Industrial Life	Life Insurance			Life Insurance	Annuities	Group		Other	Other Lines of Business	
1 Uncolected	FIRST YEAR (other than single)								2000		2		
3. Deferred accurated and uncollected:													
3.1 Direct 3.2 Remavarance assumed 3.3 Remavarance assumed 3.3 Remavarance coded 3.3 Remavarance coded 4. Advance 5. Line 3.4 - Line 4 6. Collected during year: 6. 1 Direct 6. 1 Direct 6. 1 Direct 6. 1 Remavarance coded 7. Fig. 1 7. Line 5 - Line 6. 4 7. Line 6 - Line	eferred and accrued												
3.2 Reinsurance assumed 3.3 Reinsurance ceded 4. A Avarance ceded 5. Collected during year: 6. Collected during year: 6. Collected during year: 6. Collected during year: 6. Throat	eferred, accrued and uncollected:												
3.3 Reinsurance coded 3.4 Net (Line 1 - Line 2) 4. Advance 5. Line 3 + Line 4 6. 6. 1 Direct 6. 2 Reinsurance assumed 7. 7 6. 3 Reinsurance coded 7. 7 6. 4 Net 7. Line 5 - Line 5. 4 7. Line 5 - Line 5. Line 5. 4 7. Line 5 - Line 5. Line 5. 4 7. Line 5 - Line 5. Li													
3. A Net (Line 1 + Line 2) 4. Advance 5. Line 3.4 - Line 4 6. Collected during year: 8. 1 Direct 8. 1 Direct 9. 3 Reinsurance coded 9. 5 First year (uncollected + deferred and accrued - advance) 9. First year promiums and considerations: 9. 1 Direct 9. 3 Reinsurance coded 9. 7 First year growth and considerations: 9. 1 Direct 9. 4 Net (Line 7 + Line 8) 9. 4 Net (Line 7 + Line 8) 9. 4 Net (Line 7 + Line 8) 10. 5 Reinsurance coded 10. 2 Reinsurance assumed 10. 10 Reinsurance coded 10. 2 Reinsurance coded 10. 3 Reinsurance coded 10. 5 Reinsurance coded 10. 6 Reinsurance coded 10. 6 Reinsurance coded 10. 7 Reinsurance coded 10. 8 Reinsurance coded 10. 9 Reinsurance coded 10. 1 Reinsurance coded 10	.2 Reinsurance assumed												
4. Advance 5. Line 3.4 - Line 4 6. Collected during year: 6. 1 Direct 6. 3. Reinsurance assumed 6. 3. Reinsurance coded 6. 3. Reinsurance coded 6. 3. Reinsurance coded 6. 4. Net 6. 3. Reinsurance coded 6. 4. Net 6. 4. Net 6. 4. Net 6. 5. Line 5. Line 6. 4. Line 6. L	.3 Reinsurance ceded												
5. Line 3.4 - Line 4	.4 Net (Line 1 + Line 2)												
6. Collected during year: 6. 1 Direct 9. 10 Protect 9. 2 Reinsurance assumed 9. 3 Reinsurance assumed 9. 4 Nat. 1. 1981 9. 198	dvance												
6.1 Direct	ine 3.4 - Line 4												
6.2 Reinsurance assumed 6.3 Reinsurance assumed 6.3 Reinsurance assumed 6.4 Net 6.4 Net 6.5 Line 6.4 Line 6.4 6.8 line 3.3 (381) 6.7 Prior year (uncollected + deferred and accrued - advance) 9. First year premiums and considerations: 9.1 Direct 9.2 Reinsurance assumed 9.3 Reinsurance ceded 9.3 Reinsurance ceded 9.4 Net (Line 7 - Line 8) 9.4 Net (Line 7 - Line 8) 10. Single premiums and considerations: 10.1 Direct 10.1 Direct 10.2 Reinsurance assumed 10.3 Reinsurance assumed 10.4 Net 11. Uncollected 10.4 Net 12. Deferred and accrued 13.1 Direct 13.1 Direct 13.1 Direct 13.1 Direct 13.1 Direct 13.1 Direct 13.1 Pensurance assumed 13.2 Reinsurance assumed 13.3 Reinsurance ceded 13.1 Prior (14, 465, 685) 13.3 Reinsurance assumed 13.4 Net (Line 1 + Line 12) 13.4 Reinsurance assumed 14. Advance 15.4 Reinsurance assumed 15.4 Net (Line 1 + Line 12) 15.4 Reinsurance assumed 15.5 Reinsurance assumed 16.5 Reinsurance assumed 17.5 Reinsurance assumed 18.4 Reinsurance assumed 19.5 Reinsurance assumed 19.6 Reinsurance assumed 19.7 Reinsurance assumed 19.7 Reinsurance assumed 19.8 Reinsurance ass	collected during year:												
6.3 Reinsurance ceded		167		167									
6. 4 Net. (.981)													
7. Line 5 - Line 6.4. (381) (381) 8. Prior year (uncollected + deferred and accrued - advance) 9. First year premiums and considerations: 9.1 Direct 9.2 Reinsurance assumed 9.3 Reinsurance sasumed 9.4 Net (Line 7 - Line 8) 9.5 Ning premiums and considerations: 10.1 Direct 10.2 Reinsurance assumed 10.3 Reinsurance assumed 10.4 Net 10.4 Net 10.5 REINEWAL 1.1 Uncollected 1.2 Deferred and accrued 1.3 Reinsurance seeded 1.3 Line 4.3 Lin													
Prior year (uncollected - deferred and accrued - advance) Prior year (uncollected - deferred and accrued - advance)													
9. First year premiums and considerations: 9.1 Direct 9.2 Reinsurance assumed 9.3 Reinsurance ceded 9.3 Reinsurance ceded 9.4 Net (Line 7 - Line 8) 9.4 Net (Line 7 - Line 8) 9.5 Reinsurance ceded 9.5 A - Single premiums and considerations: 10.1 Direct 10.2 Reinsurance assumed 10.3 Reinsurance ceded 10.4 Net 10.4 Net 10.5 Reinsurance ceded 10.5 Reinsurance ceded 10.6 Net 10.6 Reinsurance ceded 10.6 Net 10.7 Reinsurance ceded 10.7 Reinsurance ceded 10.8 Reinsurance ceded 10.9 Reinsurance ceded 10.9 Reinsurance ceded 10.1 Reinsurance ceded 10.1 Reinsurance ceded 10.2 Reinsurance ceded 10.3 Reinsurance ceded 10.4 Net 10.5 Reinsurance ceded 10.5 Reinsurance ceded 10.6 Reinsurance ceded 10.7 Reinsurance ceded 10.8 Reinsurance ceded 10.9 Reinsurance ceded 10.9 Reinsurance ceded 10.1 Reinsurance ceded 10.3 Reinsurance ceded 10.4 Reinsurance ceded 10.5 Reinsurance ceded 10.6 Reinsurance ceded 10.6 Reinsurance ceded 10.7 Reinsurance ceded 10.8 Reinsurance ceded 10.8 Reinsurance ceded 10.9 Reinsurance ceded 10.9 Reinsurance ceded 10.9 Reinsurance ceded 10.9 Reinsurance ceded 10.8 Reinsurance ceded 10.9 Reinsurance ceded 10.8 Reinsurance ceded 10.9 Reinsurance ceded	ine 5 + Line 6.4	(381)		(381)									
9.1 Direct	rior year (uncollected + deferred and accrued - advance)					ļ			ļ				
9.2 Reinsurance assumed 9.3 Reinsurance ceded 9.3 Note (Line 7 - Line 8) SINGLE 10. Single premiums and considerations: 10.1 Direct 10.2 Reinsurance ceded 10.3 Reinsurance ceded 10.4 Reinsurance assumed 10.5 Reinsurance ceded 10.6 Reinsurance ceded 10.7 Reinsurance assumed 10.8 Reinsurance ceded 10.9 Reinsurance ceded	irst year premiums and considerations:									1			
9.3 Reinsurance ceded		167		167									
9.4 Net (Line 7 - Line 8)													
Single premiums and considerations:													
10. Single premiums and considerations:	.4 Net (Line 7 - Line 8)	(381)		(381)									
10.1 Direct 10.2 Reinsurance assumed 10.3 Reinsurance ceded 10.4 Net RENEWAL 1. Uncollected 1. 243 1. 243 1. Deferred and accrued 1. Uncollected: 1. Uncolle													
10.2 Reinsurance assumed 10.3 Reinsurance ceded 10.4 Net RENEWAL 1. Uncollected 1. 1,243 1. 243 1. 243 1. 25 Deferred and accrued 1. 1. Uncollected: 1. 3. Deferred, accrued and uncollected: 1. 3. Deferred, accrued and uncollected: 1. 3. 1 Direct 1. 3. 2 Reinsurance assumed 1. 3. 2 Reinsurance assumed 1. 3. 3 Reinsurance assumed 1. 4 Advance 1. 5 Reinsurance ceded 1. 6 Collected during year: 1. 6 Collected during year: 1. 6 Reinsurance assumed 1. 7 Advance 1. 7 Advanc	ingle premiums and considerations:												
10.3 Reinsurance ceded 10.4 Net RENEWAL 11. Uncollected 1. 243 1. 243 1. 25 Deferred and accrued 1. (15,097,994) 1. (18,00,067) 1. (13,237,926) 1. Deferred, accrued and uncollected: 1. 3.1 Direct 1. 3.1 Direct 1. (14,485,885) 1. 29,745 1. 29,745 1. 3.3 Reinsurance assumed 1. (14,578,631) 1. (188,824) 1. (13,407,04) 1. (188,824) 1. (13,407,04) 1. (188,824) 1. (13,237,926) 1. (15,096,751) 1. (188,824) 1. (188,824) 1. (13,237,926) 1. (15,096,781) 1. (188,824) 1. (188,82													
10.4 Net													
The control of the													
11. Uncollected 1,243 1,243 12. Deferred and accrued (15,097,994) (1,860,067) (13,237,926) 13. Deferred, accrued and uncollected: (14,485,885) 92,745 (14,578,631) 13.2 Reinsurance assumed (14,485,885) 92,745 (14,40,704) 13.3 Reinsurance ceded 610,865 1,951,599 (1,340,704) 13.4 Net (Line 11 + Line 12) (15,096,751) (1,858,824) (13,237,926) 14. Advance 2,438 2,438 (13,237,926) 15. Line 13.4 - Line 14 (15,099,188) (1,861,262) (13,237,926) 16. Collected during year: 37,393,629 21,760 33,927 16.1 Direct 37,449,317 37,393,629 21,760 33,927 16.2 Reinsurance ceded 139,932,474 139,761,668 170,806 16.4 Net (102,483,157) (102,386,039) 21,760 (13,374,905) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,905)													
12. Deferred and accrued 13. Deferred, accrued and uncollected: 13.1 Direct 13.1 Direct 13.2 Reinsurance assumed 13.3 Reinsurance ceded 13.4 Net (Line 11 + Line 12) 14. Advance 2		4 040		4 040									
13. Deferred, accrued and uncollected: 13.1 Direct 13.2 Reinsurance assumed 13.3 Reinsurance ceded 13.3 Reinsurance ceded 13.4 Net (Line 11 + Line 12) 14. Advance 15. Line 13.4 - Line 14 16. Collected during year: 16.1 Direct 16.2 Reinsurance assumed 18.3 Reinsurance ceded 19.745 11.4 Advance 2. 438 2. 438 15. Line 13.4 - Line 14 16. Collected during year: 16.1 Direct 16.2 Reinsurance assumed 16.3 Reinsurance ceded 139.932,474 139,761,668 170,866 170,866 170,866 170,866 171,866 171,867,90 172, Line 15 + Line 16.4 173, 174, 175, 175, 175, 175, 175, 175, 175, 175							(40,007,000)						
13.1 Direct		(15,097,994)		(1,860,067)			(13,237,926)						
13.2 Reinsurance assumed 13.3 Reinsurance ceded 15.0 Refs 1.951,569 13.4 Net (Line 11 + Line 12) 15. Line 13.4 - Line 14 16.1 Direct 16.1 Direct 16.2 Reinsurance assumed 16.3 Reinsurance ceded 139,932,474 16.4 Net 16.4 Net 17. Line 15 + Line 16.4 17. Line 15 + Line 16.4 180,085 11,951,569 11,951,		(44 405 005)		00.745			(44 570 004)						
13.3 Reinsurance ceded 610,865 1,951,569 (1,340,704) 13.4 Net (Line 11 + Line 12) (15,096,751) (1,858,824) (13,237,926) 14. Advance 2,438 2,438 (13,237,926) 15. Line 13.4 - Line 14 (15,099,188) (15,099,188) (1,861,262) 16.2 Collected during year: 16.1 Direct 37,449,317 37,393,629 21,760 33,927 16.2 Reinsurance assumed 16.3 Reinsurance ceded 139,932,474 139,761,668 170,806 16.4 Net (102,483,157) (102,388,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805) 17. Line 16.4 (17,582,346) (104,229,301) 21,760 (13,374,805) 18,374,805 18		(14,485,885)		92,745			(14,5/8,631)						
13.4 Net (Line 11 + Line 12) (15,096,751) (1,858,824) (13,237,926) 14. Advance 2,438 2,438 (15,099,188) (15,099,188) (15,099,188) (1,861,262) (13,237,926) 15. Line 13.4 - Line 14 (15,099,188) (15,099,188) (1,861,262) (13,237,926) 16. Collected during year: 37,449,317 37,393,629 21,760 33,927 16.2 Reinsurance assumed 16.3 Reinsurance ceded 139,932,474 139,761,668 170,806 16.4 Net (102,483,157) (102,368,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805)		610 005		1 051 560			(1 240 704)						
14. Advance 2,438 2,438 15. Line 13.4 - Line 14 (15,099,188) (1,861,262) 16. Collected during year: 37,449,317 37,393,629 16.2 Reinsurance assumed 16.3 Reinsurance assumed 139,932,474 139,761,668 16.4 Net (102,483,157) (102,368,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805)													
15. Line 13.4 - Line 14							(13,231,926)						
16. Collected during year: 16.1 Direct							(12 227 026)		·				
16.1 Direct 37,449,317 37,499,317 37,393,629 21,760 33,927 16.2 Reinsurance assumed 170,806 17		(10,033,100)		(1,001,202)			(13,231,920)						
16.2 Reinsurance assumed 16.3 Reinsurance ceded 139,932,474 139,761,668 170,806 16.4 Net (102,483,157) (102,368,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805)		37 449 217		37 303 630	21 760		33 027						
16.3 Reinsurance ceded 139,932,474 139,761,668 170,806 16.4 Net (102,483,157) (102,368,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805)					∠1,700		, უ21		<u> </u>				
16.4 Net (102,483,157) (102,368,039) 21,760 (136,879) 17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805)		139 932 474		139 761 668			170 806			***************************************			
17. Line 15 + Line 16.4 (117,582,346) (104,229,301) 21,760 (13,374,805) (13,374,805)		(102 483 157)			21 760								
		(117.582.346)			21 760								
1 16. Prior vear runconected + generical and accrued - advance) (11.729.030) (1.867.014) (9.842.016)	rior year (uncollected + deferred and accrued - advance)	(11,729,030)		(1,887,014)			(9,842,016)						
19. Renewal premiums and considerations:				(,, 55. , 511)			(0,0.2,010)						
19.1 Direct 34,038.522 37,389,210 21,760 (3,372,447)		34.038.522		37,389,210	21.760		(3.372.447)						
19.2 Reinsurance assumed				3.,000,210									
19.3 Reinsurance ceded 139.891.838 139.731.496 160.342	9.3 Reinsurance ceded	139.891.838		139.731.496			160.342						
19.4 Net (Line 17 - Line 18) (105,853,315) (102,342,286) 21,760 (3,532,789)	9.4 Net (Line 17 - Line 18)				21,760								
TOTAL		. ,,,		. ,. ,,	,		12,22, 227						
20. Total premiums and annuity considerations:	otal premiums and annuity considerations:												
20.1 Direct 34,038,689 37,389,376 21,760 (3,372,447)	0.1 Direct	34,038,689		37,389,376	21,760		(3,372,447)						
20.2 Reinsurance assumed				ļ									
20.3 Reinsurance ceded													
20.4 Net (Lines 9.4 + 10.4 + 19.4) (105,853,696) (102,342,667) 21,760 (3,532,789)	0.4 Net (Lines 9.4 + 10.4 + 19.4)	(105,853,696)		(102,342,667)	21,760		(3,532,789)		<u> </u>				

EXHIBIT - 1 PART 2 - DIVIDENDS AND COUPONS APPLIED, REINSURANCE COMMISSIONS AND EXPENSE ALLOWANCES AND COMMISSIONS INCURRED (Direct Business Only)

	7.1.72 = 2711		2		nary	5	Gro			Accident and Health		11
		· ·	_	3	4	-	6	7	8	9	10	
		Total	Industrial Life	Life Insurance	Individual Annuities	Credit Life (Group and Individual)	Life Insurance	Annuities	Group	Credit (Group and Individual)	Other	Aggregate of All Other Lines of Business
	DIVIDENDS AND COUPONS APPLIED											
	(included in Part 1)											
21.	To pay renewal premiums											
22.	All other											
	REINSURANCE COMMISSIONS AND											
	EXPENSE ALLOWANCES INCURRED											
23.	First year (other than single):											
	23.1 Reinsurance ceded											
	23.2 Reinsurance assumed											
	23.3 Net ceded less assumed											
24.	Single:											
	24.1 Reinsurance ceded											
	24.2 Reinsurance assumed											
	24.3 Net ceded less assumed											
25.												
	25.1 Reinsurance ceded	61,254,601		55.515.873			5,738,728					
	25.2 Reinsurance assumed						,,,,,,,,					
	25.3 Net ceded less assumed	61.254.601		55.515.873			5.738.728					
26.				00,010,010			0,100,100					
-0.	26.1 Reinsurance ceded (Page 6, Line 6)	61,254,601		55.515.873			5.738.728					
	26.2 Reinsurance assumed (Page 6, Line 22)											
	26.3 Net ceded less assumed	61,254,601		55,515,873			5,738,728					
	COMMISSIONS INCURRED	01,204,001		50,010,010			0,700,720					
	(direct business only)											
27	First year (other than single)	(2.906)		(2,906)								
	Single	(2,500)		(2,500)								
	Renewal	2,938,674		1,701,179	44.566		1,192,930					
_	Deposit-type contract funds			1,701,170			1, 102,000					
	Totals (to agree with Page 6, Line 21)	2,935,769		1.698.273	44,566		1.192.930					
31.	rotals (to agree with Page 6, Line 21)	2,930,769		1,090,2/3	44,000		1, 19∠,930		1	1		

EXHIBIT 2 - GENERAL EXPENSES

			Insur			5	6
		1	Accident a		4		
		Life	2 Cost Containment	3 All Other	All Other Lines of Business	Investment	Total
1.	Rent	317,442				3,062	320,50
2.	Salaries and wages	3,205,739				30,924	3,236,66
	Contributions for benefit plans for employees	580,952				5,604	586.55
		302,071				2.914	304.9
	, ,						
	Payments to agents under non-funded benefit plans						
	Other employee welfare	28.238				272	28.5
	Other agent welfare	20,200					20,0
4.1	Legal fees and expenses	95.950				926	96.8
	Medical examination fees	52.669				508	53.1
4.3		(328)				(3)	(3
4.3	Fees of public accountants and consulting actuaries	17,830				172	18.0
	Expense of investigation and settlement of policy claims	10,618				102	10.7
4.5 5.1	, ,	98,304				948	99.2
	Traveling expenses	85,295				823	
5.2	Advertising	122.783				1. 184	123.9
5.3	g-,g						
5.4	Printing and stationery	82,816				799	
5.5	Cost or depreciation of furniture and equipment	100,266				967	101,2
5.6	Rental of equipment	154,771				1,493	156,2
5.7	Cost or depreciation of EDP equipment and software	28,659				276	28,9
6.1	Books and periodicals	14,931				144	15,0
6.2	Bureau and association fees	18,735				181	18,9
6.3	Insurance, except on real estate	29,402				284	29,6
6.4	Miscellaneous losses	54,458				525	54,9
6.5	Collection and bank service charges	21,801				210	22,0
6.6	Sundry general expenses	7,906				76	7,9
6.7	Group service and administration fees	714,786				6,895	721,6
6.8	Reimbursements by uninsured plans						
7.1	Agency expense allowance	1,003,402				9,679	1,013,0
7.2	Agents' balances charged off (less \$					·	
	recovered)						
7.3						801	
9.1	Real estate expenses						
	Investment expenses not included elsewhere					561.621	
	Aggregate write-ins for expenses	722,452				550	723,0
10.		7,955,012					(a)8,586,9
		2,426,507				180,708	2,607,2
11.		2,420,307				170.796	2.320.8
12.						170,796	
13.	Amounts receivable relating to uninsured plans, prior year						
14.	Amounts receivable relating to uninsured plans, current year	0.004.404				044 040	0.070.0
15.	General expenses paid during year (Lines 10+11-12-13+14)	8,231,491				641,849	8,873,3
	DETAILS OF WRITE-INS						
	Miscellaneous	56,636				550	57,1
9.302.	Management services income	665,816					665,8
9.303.							
9.398.	Summary of remaining write-ins for Line 9.3 from overflow page						
	Totals (Lines 09.301 thru 09.303 plus 09.398) (Line 9.3 above)	722.452	l			550	723,00

EXHIBIT 3 - TAXES, LICENSES AND FEES (EXCLUDING FEDERAL INCOME TAXES)

	•		Insurance		4	5
		1	2	3		
				All Other Lines of		
		Life	Accident and Health	Business	Investment	Total
1.	Real estate taxes					
2.	State insurance department licenses and fees	99, 177				99, 177
3.	State taxes on premiums					510, 155
4.	Other state taxes, including \$					
	for employee benefits	95,909				95,909
5.	U.S. Social Security taxes				2, 199	287 , 121
6.	All other taxes	-				
7.	Taxes, licenses and fees incurred	990, 163			2, 199	992,362
8.	Taxes, licenses and fees unpaid December 31, prior year	233,822			437	234,258
9.	Taxes, licenses and fees unpaid December 31, current year	199,018			442	199,460
10.	Taxes, licenses and fees paid during year (Lines 7 + 8 - 9)	1,024,967			2,194	1,027,160

EXHIBIT 4 - DIVIDENDS OR REFUNDS

	EXHIBIT 4 - DIVIDENDS OR REFUNDS		
		1	2
		Life	Accident and Health
1.	Applied to pay renewal premiums		
2.	Applied to shorten the endowment or premium-paying period		
3.	Applied to provide paid-up additions		
4.	Applied to provide paid-up annuities		
5.	Total Lines 1 through 4		
6.	Paid in cash		
7.	Left on deposit		
8.	Aggregate write-ins for dividend or refund options		
9.	Total Lines 5 through 8		
10.	Amount due and unpaid		
11.	Provision for dividends or refunds payable in the following calendar year		
12.	Terminal dividends		
13.	Provision for deferred dividend contracts		
14.	Amount provisionally held for deferred dividend contract to be alude in Li 3		
15.	Amount provisionally held for deferred dividend contract by adult on Li 3		
16.	Total from prior year		
17.	Total dividends or refunds (Lines 9 + 15 - 16)		
	DETAILS OF WRITE-INS		
0801.			
0802.			
0803.			
0898.	Summary of remaining write-ins for Line 8 from overflow page		
0899.	Totals (Lines 0801 thru 0803 plus 0898) (Line 8 above)		

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5 Credit	6
				(Group and	
Valuation Standard	Total	Industrial	Ordinary	Individual)	Group
0100001. 58 CET 4.00% NLP					
0100002. 58 CS0 4.00% MOD CRVM					
0100003. 58 CSO 4.50% CRVM			6,671		
0100004. 80 CSO 3.00%					1,450,000
0100005. 80 CS0 4.00%					4,983
0100006. 80 CSO 4.50% CRVM			, , ,		
0100007. 80 CS0 5.50% CRVM	60,933,495		60,933,495		4 454 000
0199997. Totals (Gross)	147, 173, 575		145,718,592		1,454,983
0199998. Reinsurance ceded	23,083,482		23,048,300		35,182
0199999. Life Insurance: Totals (Net)	124,090,093		122,670,292		1,419,801
0200001. 1994 MGDB Table TY/FIG					
0200002. a-2000 4.00%				XXX	
0200003. a-2000 4.25%					
0200004. a-2000 4.50%	3,793	XXX			
0200005. a-2000 5.00%	827	XXX		XXX	
0200006. a-2000 5.50%	93,253	XXX		XXX	
0200007. a-2012 4.00%	532,165	XXX	532 , 165	XXX	
0299997. Totals (Gross)	2,822,073	XXX	2,822,073	XXX	
0299998. Reinsurance ceded		XXX		XXX	
0299999. Annuities: Totals (Net)	2,822,073	XXX	2,822,073	XXX	
0399998. Reinsurance ceded					
0399999. SCWLC: Totals (Net)					
0400001. 59 ADB + 58 CSO 4.50%	1,695		1,695		
0400002. 59 ADB + 58 CSO 5.50%	324		324		
0499997. Totals (Gross)	2,019		2,019		
0499998. Reinsurance ceded					
0499999. Accidental Death Benefits: Totals (Net)	2.019		2.019		
0500001. 120% 52 INTERCO DISA 4.50%	41.056		41.056		
0500002. 120% 52 INTERCO DISA 5.50%	9,898		9,898		
0500003. 35-39 INTERCO + 58 CSO 3.50%			9,124		
0599997. Totals (Gross)	60,078		60,078		
0599998. Reinsurance ceded	,		,		
0599999. Disability-Active Lives: Totals (Net)	60.078		60.078		
0600001. 52 DISAB TABLE BEN 5 3.50%	,		18,886		
0600002. 52 DISAB TABLE BEN 5 4.00%			275.107		
0600003. 52 DISAB TABLE BEN 5 4.50%			5,506,893		
0600004. 52 DISAB TABLE BEN 5 5.50%			2,541,199		
0699997. Totals (Gross)	8.342.085		8,342,085		
0699998. Reinsurance ceded	2,0.2,000		2,012,000		
0699999. Disability-Disabled Lives: Totals (Net)	8.342.085		8.342.085		
0700001. AG43 reserve	, , , ,		921.652		
0700002. Minimum death benefit			78,486		
0700003. Policy loans			2,221,137		
0700004. Term cost reserve			504		
0799997. Totals (Gross)	3.221.779		3.221.779		
0799998. Reinsurance ceded	3,221,773		3,221,110		
0799999. Miscellaneous Reserves: Totals (Net)	3.221.779		3,221,779		
9999999. Totals (Net) - Page 3, Line 1	138.538.127		137.118.326		1.419.801
Joseph Totals (Net) - Lage J, Lille I	130,330,121		101,110,020		1,419,601

EXHIBIT 5 - INTERROGATORIES

1.1	Has the reporting entity ever issued both participating and non-participating contracts?	Yes] ;] N	lo [X]	
1.2	If not, state which kind is issued.					
	Non-Participating					
2.1	Does the reporting entity at present issue both participating and non-participating contracts?	. Yes	; [] N	lo [X]	
2.2	If not, state which kind is issued.					
	Non-Participating					
3.	Does the reporting entity at present issue or have in force contracts that contain non-guaranteed elements?	. Yes	, [X] N	lo []	
	If so, attach a statement that contains the determination procedures, answers to the interrogatories and an actuarial opinion as described in the instructions.					
4.	Has the reporting entity any assessment or stipulated premium contracts in force?	Yes	, [] N	lo [X]	
	If so, state:					
	4.1 Amount of insurance?					
	4.2 Amount of reserve?					
	4.3 Basis of reserve:					
	4.4 Basis of regular assessments:					
	4.5 Basis of special assessments:					
	4.6 Assessments collected during the year\$					
5.	If the contract loan interest rate guaranteed in any one or more of its currently issued contracts is less than 5%, not in advance, state the contract loan rate guarantees on any such contracts.					
6.	Does the reporting entity hold reserves for any annuity contracts that are less than the reserves that would be held on a standard basis?					
	6.1 If so, state the amount of reserve on such contracts on the basis actually held:					
	6.2 That would have been held (on an exact or approximate basis) using the actual ages of the annuitants; the interest rate(s) used in 6.1; and the same mortality basis used by the reporting entity for the valuation of comparable annuity benefits issued to standard lives. If the reporting entity has no comparable annuity benefits for standard lives to be valued, the mortality basis shall be the table most recently approved by the state of domicile for valuing individual annuity benefits: \$\text{\$\text{\$\text{\$}}\$}\$					
	Attach statement of methods employed in their valuation.					
7.	Does the reporting entity have any Synthetic GIC contracts or agreements in effect as of December 31 of the current year?					
	7.1 If yes, state the total dollar amount of assets covered by these contracts or agreements\$					
	7.2 Specify the basis (fair value, amortized cost, etc.) for determining the amount:					
	7.3 State the amount of reserves established for this business:					
	7.4 Identify where the reserves are reported in the blank:					
8.	Does the reporting entity have any Contingent Deferred Annuity contracts or agreements in effect as of December 31 of the current year?					
	8.1 If yes, state the total dollar amount of account value covered by these contracts or agreements:		-	-		
	8.2 State the amount of reserves established for this business:\$					
	8.3 Identify where the reserves are reported in the blank:					
9.	Does the reporting entity have any Guaranteed Lifetime Income Benefit contracts, agreements or riders in effect as of December 31 of the current year?		; [1 N	lo [X]	
	9.1 If yes, state the total dollar amount of any account value associated with these contracts, agreements or riders: \$					
	9.2 State the amount of reserves established for this business:					
	9.3 Identify where the reserves are reported in the blank:					

EXHIBIT 5A - CHANGES IN BASES OF VALUATION DURING THE YEAR



Exhibit 6 - Aggregate Reserves for Accident and Health Contracts **NONE**

EXHIBIT 7 - DEPOSIT TYPE CONTRACTS

EXHIBIT I BEI GO		1010				
	1	2	3	4	5 Dividend	6 Premium and
	Total	Guaranteed Interest Contracts	Annuities Certain	Supplemental Contracts	Accumulations or Refunds	Other Deposit Funds
Balance at the beginning of the year before reinsurance	9,891,826		62,038	9,829,788		
Deposits received during the year	3,906,778			3,906,778		
Investment earnings credited to the account	270,321			270,321		
4. Other net change in reserves			62,230	(62,230)		
5. Fees and other charges assessed						
6. Surrender charges						
7. Net surrender or withdrawal payments	2,520,526			2,520,526		
8. Other net transfers to or (from) Separate Accounts						
9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8)	11,548,399		124,268	11,424,131		
10. Reinsurance balance at the beginning of the year						
11. Net change in reinsurance assumed						
12. Net change in reinsurance ceded						
13. Reinsurance balance at the end of the year (Lines 10+11-12)						
14. Net balance at the end of current year after reinsurance (Lines 9 + 13)	11.548.399		124.268	11.424.131		

... , Credit Life (Group and Individual) \$

.... , and Other Accident and Health \$

Credit (Group and Individual) Accident and Health \$

ANNUAL STATEMENT FOR THE YEAR 2016 OF THE MML Bay State Life Insurance Company

EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 1 - Liability End of Current Year

10

		Total	Industrial Life	Life Insurance	Individual Annuities	Supplementary Contracts	Credit Life (Group and Individual)	Life Insurance	Annuities	Group	Credit (Group and Individual)	Other
1. Due and unpaid:		Total	maddinar End	Life insurance	maividaa / maitics	Contracts	and marvidual)	Life insurance	Aimaiacs	Стопр	maividualy	Other
i. Buo ana ampaia.	1.1 Direct											
	1.2 Reinsurance assumed											
	1.3 Reinsurance ceded											
	1.4 Net											
2. In course of settlement:												
2.1 Resisted	2.11 Direct											
	2.12 Reinsurance assumed											
	2.13 Reinsurance ceded											
	2.14 Net			(b)	(b)		(b)	(b)				
2.2 Other	2.21 Direct	11,474,597		7,890,508				3,584,089				
	2.22 Reinsurance assumed											
	2.23 Reinsurance ceded	8,383,531		4,799,442				3,584,089				
	2.24 Net	3,091,066		(b)3,091,066	(b)		(b)	(b)		(b)	(b)	(b)
Incurred but unreported:												
	3.1 Direct	1, 130, 294		1, 130, 294								
	3.2 Reinsurance assumed											
	3.3 Reinsurance ceded	396,900		396,900								
	3.4 Net	733,394		(b)733,394	(b)		(b)	(b)		(b)	(b)	(b)
. TOTALS	4.1 Direct	12,604,891		9,020,802				3,584,089				
	4.2 Reinsurance assumed											
	4.3 Reinsurance ceded	8,780,431		5, 196, 342				3,584,089				
	4.4 Net	3,824,460	(a)	(a) 3,824,460				(a)				

are included in Page 3, Line 2 (See Exhibit 6, Claim Reserve).

, and Group Life \$, are included in Page 3, Line 1, (See Exhibit 5, Section on Disability Disabled Lives); and for Group Accident and Health \$

EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 2 - Incurred During the Year

		1	2 Ordinary			6	Gro	oup		Accident and Health			
				3	4	5	1	7	8	9	10	11	
			Industrial Life	Life Insurance		Supplementary	Credit Life (Group	Life Insurance			Credit (Group		
		Total	(a)	(b)	Individual Annuities	Contracts	and Individual)	(c)	Annuities	Group	and Individual)	Other	
1.	Settlements During the Year:												
	1.1 Direct	69, 187, 801		27,757,583	3,111,803			38,318,416					
	1.2 Reinsurance assumed												
	1.3 Reinsurance ceded	24,460,316		14, 101, 586				10,358,730					
	1.4 Net	(d)44,727,485		13,655,997	3,111,803			27,959,685					
2.	Liability December 31, current year from Part 1:												
	2.1 Direct	12,604,891		9,020,802				3,584,089					
	2.2 Reinsurance assumed												
	2.3 Reinsurance ceded	8,780,431		5, 196, 342				3,584,089					
	2.4 Net	3,824,460		3,824,460									
3.	Amounts recoverable from reinsurers December 31, current year	2.911.681		1.104.690				1.806.991					
4	Liability December 31, prior year:			1,101,000				1,000,001					
	4.1 Direct	12,383,621		4,885,154				7,498,468					
	4.2 Reinsurance assumed												
	4.3 Reinsurance ceded	5,642,111		2,443,016				3, 199, 095					
	4.4 Net	6,741,511		2,442,138				4,299,373					
5.	Amounts recoverable from reinsurers December 31, prior year	5,325,462		734,466				4,590,996					
6.	Incurred Benefits												
	6.1 Direct	69,409,071		31,893,231	3,111,803			34,404,037					
	6.2 Reinsurance assumed				. ,								
	6.3 Reinsurance ceded	25 , 184 , 855		17,225,136				7,959,719					
	6.4 Net	44,224,216		14,668,095	3,111,803			26,444,318					

(a) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$		in Line 1.1, \$	in Line 1.4.
	\$	in Line 6.1, and \$	in Line 6.4.
(b) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$		in Line 1.1, \$	in Line 1.4.
	\$	in Line 6.1, and \$	in Line 6.4.
(c) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$		in Line 1.1, \$	in Line 1.4.
	\$	in Line 6.1, and \$	in Line 6.4.
(d) Includes \$	ts.		

EXHIBIT OF NON-ADMITTED ASSETS

	EXHIBIT OF NON-ADMITTE	DASSEIS	2	3
		Current Year Total Nonadmitted Assets	Prior Year Total Nonadmitted Assets	Change in Total Nonadmitted Assets (Col. 2 - Col. 1)
1.	Bonds (Schedule D)		TVOHIZAHIILICA 7133C13	(001: 2 001: 1)
2.	Stocks (Schedule D):	-		
	2.1 Preferred stocks			
	2.2 Common stocks			
3.	Mortgage loans on real estate (Schedule B):	-		
0.	3.1 First liens			
	3.2 Other than first liens.			
4.	Real estate (Schedule A):			
4.	4.1 Properties occupied by the company			
	4.2 Properties held for the production of income			
	4.3 Properties held for sale			
5.	Cash (Schedule E - Part 1), cash equivalents (Schedule E - Part 2) and short-term investments (Schedule DA)			
6.	Contract loans			
7.	Derivatives (Schedule DB)			
8.	Other invested assets (Schedule BA)			
9.	Receivables for securities			
10.	Securities lending reinvested collateral assets (Schedule DL)			
11.	Aggregate write-ins for invested assets			
12.	Subtotals, cash and invested assets (Lines 1 to 11)			
13.	Title plants (for Title insurers only)			
14.	Investment income due and accrued	1,760		(1,760)
15.	Premiums and considerations:			
	15.1 Uncollected premiums and agents' balances in the course of collection	477		(477)
	15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due			
	15.3 Accrued retrospective premiums and contracts subject to redetermination			
16.	Reinsurance:			
	16.1 Amounts recoverable from reinsurers			
	16.2 Funds held by or deposited with reinsured companies			
	16.3 Other amounts receivable under reinsurance contracts			
17.	Amounts receivable relating to uninsured plans			
18.1	Current federal and foreign income tax recoverable and interest thereon			
18.2	Net deferred tax asset	13,733,302	3,847,610	(9,885,692)
19.	Guaranty funds receivable or on deposit			
20.	Electronic data processing equipment and software			
21.	Furniture and equipment, including health care delivery assets			
22.	Net adjustment in assets and liabilities due to foreign exchange rates			
23.	Receivables from parent, subsidiaries and affiliates			
24.	Health care and other amounts receivable			
25.	Aggregate write-ins for other than invested assets			
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	13,735,539	3,847,610	(9,887,929)
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts	-		
28.	Total (Lines 26 and 27)	13,735,539	3,847,610	(9,887,929)
1101	DETAILS OF WRITE-INS			
1101. 1102.				
1103.	Summary of romaining write ine for Line 11 from everflow page			
1198.	Summary of remaining write-ins for Line 11 from overflow page			
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)			
2501.				
2502.				
2503.				
2598.	Summary of remaining write-ins for Line 25 from overflow page	-		
2599.	Totals (Lines 2501 thru 2503 plus 2598)(Line 25 above)			

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- Note 32 Analysis of Annuity Actuarial Reserves and Deposit Type Liabilities by Withdrawal Characteristics
- Note 33 Premium and Annuity Considerations Deferred and Uncollected
- Note 34 Separate Accounts
- Note 35 Loss/Claim Adjustment Expenses

Note 1 - Summary of Significant Accounting Policies and Going Concern

a. Accounting practices:

The accompanying financial statements of MML Bay State 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 State of Connecticut Insurance Department (the Department).

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

		F/S	F/S			
	SSAP#	Page	Line	_	2016	2015
NET INCOME						
(1) State basis (Page 4, Line 35, Columns 1 & 3)	XXX	XXX	XXX	\$	20,255,139	\$ 20,657,513
(2) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A		-	-
(3) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A			
(4) NAIC SAP (1-2-3=4)	XXX	XXX	XXX	\$	20,255,139	\$ 20,657,513
SURPLUS						
(5) State basis (Page 3, Line 38, Columns 1 & 2)	XXX	XXX	XXX	\$	288,294,439	\$ 231,301,005
(6) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A		-	-
(7) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A			
(8) NAIC SAP (5-6-7=8)	XXX	XXX	XXX	\$	288,294,439	\$ 231,301,005

b. Use of estimates in the preparation of the financial statements:

The preparation of financial statements requires management to make estimates and assumptions that impact the reported amounts of assets and liabilities, the disclosure of assets and liabilities as of the date of the statutory financial statements and the reported amounts of revenues and expenses during the reporting periods. The most significant estimates include those used in determining the carrying values of investments including the amount of mortgage loan investment valuation reserves, other-than-temporary impairment(s) (OTTI), the liabilities for policyholders' reserves, the determination of admissible deferred tax assets (DTAs), the liability for taxes and litigation contingencies. Future events including, but not limited to, changes in the level of mortality, morbidity, interest rates, persistency, asset valuations and defaults could cause results to differ from the estimates used in the statutory financial statements. Although some variability is inherent in these estimates, management believes the amounts presented are appropriate.

c. Accounting policy:

Life insurance premium revenue is generally recognized annually on the anniversary date of the policy. However, premium for flexible products, primarily universal life and variable universal life contracts, is recognized as revenue when received. Annuity premium is recognized as revenue when received. Expenses incurred in connection with acquiring new insurance business, including certain acquisition costs, such as commissions, are charged to current operations as incurred. Policy loans are carried at the outstanding loan balance less amounts unsecured by the cash surrender value of the policy. Unsecured amounts can occur when subsequent charges are incurred on the underlying policy without the receipt of additional premium. Where applicable, the values of invested assets have been adjusted for impairments considered OTTI.

In addition, the Company uses the following accounting policies:

- (1) Short-term investments, which are carried at amortized cost, consist of all highly liquid investments purchased with maturities of greater than three months and less than or equal to 12 months. Investments in short-term bonds are classified as short-term investments.
- (2) Bonds are generally valued at amortized cost using the constant yield interest method with the exception of NAIC Category 6 bonds, which are in or near default, and certain residential mortgage-backed securities (RMBS) and commercial mortgage-backed securities (CMBS), which are rated by outside modelers, which are carried at the lower of amortized cost or fair value. NAIC ratings are applied to bonds and other securities. Categories 1 and 2 are considered investment grade, while Categories 3 through 6 are considered below investment grade. Bond transactions are recorded on a trade date basis, except for private placement bonds, which are recorded on the funding date.

The fair value of bonds is based on quoted market prices when available. If quoted market prices are not available, values provided by other third-party organizations are used. If values provided by other third-party organizations are unavailable, fair value is estimated using internal models by discounting expected future cash flows using observable current market rates applicable to yield, credit quality and maturity of the investment or using quoted market values for comparable investments. Internal inputs used in the determination of fair value include estimated prepayment speeds, default rates, discount rates and collateral values, among others. Structure characteristics and cash flow priority are also considered. Fair values resulting from internal models are those expected to be received in an orderly transaction between willing market participants at the financial statement date.

Refer to Note 1c. "Accounting policy" (14) for information on the Company's policy for determining OTTI.

- (3) As of December 31, 2016 and 2015, the Company did not hold any common stocks.
- (4) As of December 31, 2016 and 2015, the Company did not hold any preferred stocks.
- (5) Mortgage loans are valued at the unpaid principal balance of the loan, net of unamortized premium, discount, mortgage origination fees and valuation allowances. Mortgage loans comprised primarily seasoned pools of homogeneous residential mortgage loans substantially backed by Federal Housing Administration (FHA) and Veterans Administration (VA) guarantees.
- (6) For loan-backed and structured securities, such as asset-backed securities (ABS), mortgage-backed securities (MBS), including residential mortgage-backed securities and commercial mortgage-backed securities, and structured securities, including collateralized debt obligations (CDOs), amortization or accretion is revalued quarterly based on the current estimated cash flows, using either the prospective or retrospective adjustment methodologies.

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.

Refer to Note 1c. "Accounting policy" (14) for information on the Company's policy for determining OTTI.

- (7) The Company did not own any subsidiaries and did not hold any investments in controlled or affiliated companies.
- (8) The Company did not have any investments in joint ventures, partnerships or limited liability companies (LLCs).
- (9) The Company did not have any derivative financial instruments.
- (10) The Company does not utilize anticipated investment income as a factor in the premium deficiency calculation in accordance with Statutory Accounting Principles (SSAP) No. 54 "Individual and Group Accident and Health Contracts."
- (11) The Company does not have disability or long-term care contracts therefore it does not have any unpaid claim or claim expense reserves related to these products.
- (12) The Company has not modified its capitalization policy from the prior period.
- (13) The Company did not issue any business that would give rise to pharmaceutical rebates or risk sharing receivables.
- (14) The book values of investments are written down when declines in values are considered to be other than temporary.

Bonds - general

The Company employs a systematic methodology to evaluate OTTI by conducting a quarterly analysis of bonds. The impairment review process provides a framework for determining OTTI in a manner consistent with market participant assumptions. The Company considers the following factors, where applicable depending on the type of securities, in the evaluation of whether a decline in value is other than temporary: (a) the likelihood that the Company will be able to collect all amounts due according to the contractual terms of the debt security; (b) the present value of the expected future cash flows of the security; (c) the characteristics, quality and value of the underlying collateral or issuer securing the position; (d) collateral structure; (e) the length of time and extent to which the fair value has been below amortized cost; (f) the financial condition and near-term prospects of the issuer; (g) adverse conditions related to the security or industry; (h) the rating of the security; (i) the Company's ability and intent to hold the investment for a period of time sufficient to allow for an anticipated recovery to amortized cost; and (j) other qualitative and quantitative factors in determining the existence of OTTI including, but not limited to, unrealized loss trend analysis and significant short-term changes in value.

In addition, if the Company has the intent to sell, or the inability, or lack of intent to retain the investment for a period sufficient to recover the amortized cost basis, an OTTI is recognized as a realized loss equal to the entire difference between the investment's amortized cost basis and its fair value at the balance sheet date.

When a bond is other-than-temporarily impaired, a new cost basis is established.

Bonds - corporate

For corporate securities, if it is determined that a decline in the fair value of a bond is other than temporary, OTTI is recognized as a realized loss equal to the difference between the investment's amortized cost basis and, generally, its fair value at the balance sheet date.

Bonds - loan-backed and structured securities

For loan-backed and structured securities, if the present value of cash flows expected to be collected is less than the amortized cost basis of the security, an OTTI is recognized as a realized loss equal to the difference between the investment's amortized cost basis and the present value of cash flows expected to be collected. The expected cash flows are discounted at the security's effective interest rate. Internal inputs used in determining the amount of the OTTI on structured securities include collateral performance, prepayment speeds, default rates, and loss severity based on borrower and loan characteristics, as well as deal structure including subordination, over-collateralization and cash flow priority.

ABS and MBS are evaluated for OTTI using scenarios and assumptions based on the specifics of each security including collateral type, loan type, vintage and subordination level in the structure. Cash flow estimates are based on these assumptions and inputs obtained from external industry sources along with internal analysis and actual experience. Where applicable, assumptions include prepayment speeds, default rates and loss severity, weighted average maturity and changes in the underlying collateral values.

The Company has a review process for determining if CDOs are at risk for OTTI. For the senior, mezzanine and junior debt tranches, cash flows are modeled using multiple scenarios based on the current ratings and values of the underlying corporate credit risks and incorporating prepayment and default assumptions that vary according to collateral attributes of each CDO. The prepayment and default assumptions are varied within each model based upon rating (base case), historical expectations (default), rating change improvement (optimistic), rating change downgrade (pessimistic) and fair value (market). The default rates produced by these multiple scenarios are assigned an expectation weight according to current market and economic conditions and fed into a final scenario. OTTI is recorded if this final scenario results in the loss of any principal or interest payments due.

For the most subordinated junior CDO tranches, the present value of the projected cash flows in the final scenario is measured using an effective yield. If the current book value of the security is greater than the present value measured using an effective yield, an OTTI is taken in an amount sufficient to produce its effective yield. Certain CDOs cannot be modeled using all of the scenarios because of limitations on the data needed for all scenarios. The cash flows for these CDOs, including foreign currency denominated CDOs, are projected using a customized scenario management believes is reasonable for the applicable collateral pool.

For loan-backed and structured securities, any difference between the new amortized cost basis and any increased present value of future cash flows expected to be collected is accreted into net investment income over the expected remaining life of the bond.

d. Going concern:

There is not substantial doubt regarding the Company's ability to continue as a going concern.

Note 2 - Accounting Changes and Corrections of Errors

a. For the years ended December 31, 2016 and 2015, the Company did not record any corrections of prior year errors.

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 April and August 2016, the NAIC adopted and made effective modifications to SSAP No. 1, *Accounting Policies, Risks & Uncertainties, and Other Disclosures*. The modifications clarify that the disclosure presentation for permitted and prescribed practices should include practices that result in different statutory accounting reporting (such as gross or net) presentations that differ from the Accounting Practices and Procedures (AP&P) Manual. The modifications also clarified that disclosure of restricted assets should be included in the annual financial statements, and, pursuant to the AP&P manual preamble, in the interim financial statements if significant changes have occurred since the annual statement. These modifications did not have an impact on the Company's financial statements.

In June 2016, the NAIC adopted and made effective modifications to SSAP No. 97, *Investments in Subsidiary, Controlled and Affiliated Entities*. The modifications clarify which entities are subject to the subsidiary, controlled and affiliated (SCA) disclosure and add a new appendix detailing the filing guidance that was previously included within the Purposes and Procedures Manual of the NAIC Investment Analysis Office for SCA entities. These modifications did not have an impact on the Company's financial statements.

In June 2016, the NAIC adopted modifications to SSAP No. 2, *Cash, Drafts and Short-Term Investments,* SSAP No. 26, *Bonds, Excluding Loan-backed and Structured Securities*, and SSAP No. 30, *Unaffiliated Common Stock*, which were effective September 30, 2016. These modifications clarify the accounting for short-term investments and the classification of Money Market Mutual Funds registered under the Investment Company Act of 1940 (the Act) and regulated under rule 2a-7 of the Act as short-term investments under SSAP No. 2. While retaining the short-term classification, Money Market Mutual Funds may be accounted for under SSAP No. 26 or SSAP No. 30. These modifications did not have a significant impact on the Company's financial statements.

In June 2016, the NAIC adopted modifications to SSAP No. 1, *Accounting Policies, Risks & Uncertainties, and Other Disclosures*, which are effective December 31, 2016. These modifications require the reporting entity to disclose the amount and nature of any assets reflected within the reporting entity's financial statements that were received as collateral and the recognized liability to return these collateral assets. The Company has adopted these modifications.

In August 2016, the NAIC adopted and made effective modifications to SSAP No. 51, *Life Contracts*. These modifications clarify that annual assumption changes from reserving methods used in principles-based reserving (PBR) would not qualify as a change in valuation basis. Changes in valuation basis are recorded directly to surplus instead of through income. This modification was made to accommodate PBR which becomes effective January 1, 2017. This modification did not have an impact on the Company's financial statements

Note 3 - Business Combinations and Goodwill

- a. The Company did not have any business combinations accounted for using the statutory purchase method.
- b. There were no business combinations taking the form of a statutory merger.
- c. The Company did not enter into any assumption reinsurance agreements.
- d. The Company did not recognize an impairment loss on the transactions described above.

Note 4 - Discontinued Operations

The Company did not have any discontinued operations.

Note 5 - Investments

- a. Mortgage loans:
 - (1) During 2016, the Company did not purchase residential mortgage loans.

During 2015, both the maximum and minimum lending rates for new residential mortgage loans were 3.9%.

- (2) During 2016 and 2015, the Company did not own any commercial mortgage loans or mezzanine real estate loans.
- (3) As of December 31, 2016 and 2015, the Company did not have any taxes, assessments and amounts advanced and not included in the mortgage loan total.

(4) Age analysis of mortgage loans:

					Resident	tial	Comn	nercial	_		
			Fa	rm	Insured	All Other	Insured	All Other	Mez	zanine	Total
a.	201	16									
	1.	Recorded investment (all)									
		(a) Current	\$	- \$	3,828,103 \$	178,985 \$	- \$		- \$	- \$	4,007,088
		(b) 30-59 days past due		-	-	-	-		-	-	-
		(c) 60-89 days past due		-	-	-	-		-	-	-
		(d) 90-179 days past due		-	-	-	-		-	-	-
		(e) 180+ days past due		-	-	_	-		-	-	-
	2.	Accruing interest 90-179									
		days past due									
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Interest accrued		-	-	-	-		-	-	-
	3.	Accruing interest 180+									
		days past due									
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Interest accrued		-	-	-	-		-	-	-
	4.	Interest reduced									
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Number of loans		-	-	-	-		-	-	-
		(c) Percent reduced		-	-	-	-		-	-	-
b.	201	15									
	1.	Recorded investment (all)									
		(a) Current	\$	- \$	5,655,082 \$	192,376 \$	- \$		- \$	- \$	5,847,458
		(b) 30-59 days past due		-	-	-	-		-	-	-
		(c) 60-89 days past due		-	-	-	-		-	-	-
		(d) 90-179 days past due		-	-	-	-		-	-	-
		(e) 180+ days past due		-	-	-	-		-	-	-
	2.	Accruing interest 90-179									
		days past due									
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Interest accrued		-	-	-	-		-	-	-
	3.	Accruing interest 180+									
		days past due				_	_			_	
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Interest accrued		-	-	-	-		-	-	-
	4.	Interest reduced				_	_			_	
		(a) Recorded investment	\$	- \$	- \$	- \$	- \$		- \$	- \$	-
		(b) Number of loans		-	-	-	-		-	-	-
		(c) Percent reduced		-	-	-	-		-	-	-

- (5) As of December 31, 2016 and 2015, the Company did not have any impaired mortgage loans with or without allowance for credit losses.
- (6) As of December 31, 2016 and 2015, the Company did not have any impaired mortgage loans.
- (7) As of and for the years ended December 31, 2016 and 2015, the Company did not have any mortgage loans with allowance for credit losses nor any changes in the allowance for credit losses.
- (8) As of December 31, 2016, the Company did not have any mortgage loans derecognized as a result of foreclosure.
- (9) Interest income earned on impaired loans is accrued on the outstanding principal balance of the loan based on the loan's contractual coupon rate. Interest is not accrued for (a) impaired loans more than 60 days past due, (b) delinquent loans more than 90 days past due, or (c) loans that have interest that is not expected to be collected. The Company continually monitors mortgage loans where the accrual of interest has been discontinued, and will resume the accrual of interest on a mortgage loan when the facts and circumstances of the borrower and property indicate that the payments will continue to be received according to the terms of the original or modified mortgage loan agreement.
- b. Debt restructuring:

As of December 31, 2016 and 2015, the Company did not have any restructured debt.

c. Reverse mortgages:

As of December 31, 2016 and 2015, the Company did not have any reverse mortgages.

- 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 OTTI classified on the following bases for recognizing OTTI:

			(1)	(2)				(3)	
					_	OTTI			
			Amortized			cogniz			
		ļ	Cost Basis			n Loss			
			Before	(2	,	(2t	,	Fair Value	
		<u>L</u>	OTTI	Inte	rest	Non	ı-interest		1-(2a+2b)
ОТ	Il recognized in the first quarter								
a.	Intent to sell	\$	_	Φ.	_	¢	_	¢	_
b.	Inability or lack of intent to retain the investment	Ψ	_	Ψ	_	Ψ	_	Ψ	_
υ.	in the security for a period of time sufficient to								
	recover the amortized cost basis		_		_		_		_
C.	Total first quarter	\$		\$		\$	_	\$	
		<u> </u>		<u>-</u>		<u> </u>		<u>-</u>	
ОТ	Il 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		76,837				6,452		70,385
f.	Total second quarter	\$	76,837	\$		\$	6,452	\$	70,385
				_		_			
OT	ΓI 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	_	118,384				845		117,539
i.	Total third quarter	\$	118,384	\$		\$	845	\$	117,539
	I 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		110,964				1,816		109,148
	Total fourth quarter	\$	110,964	\$		\$	1,816	\$	
I.	rotar rourtii quartei	φ	110,904	Φ		Φ	1,010	Φ	109,148
m	Appual aggregate total			<u>c</u>		<u> </u>	0.112		
m.	Annual aggregate total			\$		\$	9,113		

All impairments were taken due to the present value of cash flows expected to be collected being less than the amortized cost basi

(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
79549ASM2	\$ 76,836.92	\$ 70,384.74	\$ (6,452.18)	\$ 70,384.74	\$ 72,517.43	June 30, 2016
86358RA23	118,384.46	117,539.46	(845.00)	117,539.46	112,771.17	September 30, 2016
05948JAA0	3,127.19	3,108.30	(18.89)	3,108.30	2,908.83	December 31, 2016
86358RA23	107,836.45	106,038.97	(1,797.48)	106,038.97	101,998.78	December 31, 2016
Totals	\$ 306,185.02	\$ 297,071.47	\$ (9,113.55)	\$ 297,071.47	\$ 290,196.21	

- (4) As of December 31, 2016, the gross unrealized losses and fair values for investments in structured and loan-backed securities which an OTTI has not been recognized in earnings follow:
 - a. The aggregate amount of unrealized losses:

Less than 12 months
 12 months or longer
 (2,115,404)
 (47,305)

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

 1. Less than 12 months
 \$ 95,777,832

 2. 12 months or longer
 \$ 1,517,355

- (5) No additional information.
- e. Repurchase agreements:
 - (1) The Company did not have any repurchase agreements for the years ended December 31, 2016 or 2015.
- f. Real estate:
 - (1) The Company did not have any investments in real estate for the years ended December 31, 2016 and 2015.
- g. Low income housing tax credit properties:

(1) The Company did not have any these properties for the years ended December 31, 2016 or 2015.

h. Restricted assets:

(1) Restricted assets (including pledged):

			Gross	(Admitted	& Nonad	mitted) Res	stricted			Currer	nt Year	t Year		
				urrent Yea		,	6	7	8	9		entage		
		1	2	3	4	5					10	11		
Rest	ricted Asset Category	Total General Account	G/A Supporting S/A Activity	Total Separate Account (S/A) Restricted	S/A Assets Supporting G/A Activity	Total	Total from		Total Nonadmitted	Total Current Year Admitted Restricted	Gross (Admitted & Nonadmitted) Restricted to Total Assets	Admitted Restricted to Total Admitted Assets		
a.	Subject to contractual obligation for which liability is not shown	(G/A) \$ -	(a) \$ -	Assets -	(b) \$ -	(1 plus 3) \$ -	Prior Year \$ -	(5 minus 6)	Restricted \$ -	(5 minus 8)	(c) \$ -	(d) \$ -		
b.	Collateral held under security lending agreements	-	-	-	-	-	-	-	-	-	-	-		
c.	Subject to repurchase agreements	-	-	-	-	-	-	-	-	-	-	-		
d.	Subject to reverse repurchase agreements	-	-	-	-	-	-	-	-	-	-	-		
e.	Subject to dollar repurchase agreements	-	=	-	-	-	-	=	-	-	-	-		
f.	Subject to dollar reverse repurchase agreements	-	-	-	-	-	-	-	-	-	-	-		
g.	Placed under option contracts	-	-	-	-	-	-	-	-	-	-	-		
h.	Letter stock or securities restricted as to sale - excluding FHLB capital stock	-	-	-	-	-	-	-	-	-	-	-		
i.	FHLB capital stock	-	-	-	-	-	-	-						
j.	On deposit with states	4,265,185	-	-	-	4,265,185	4,234,661	30,524	-	4,265,185	0.088%	0.089%		
k.	On deposit with other regulatory bodies	-	-	-	-	-	-	-	-	-	-	-		
I.	Pledged collateral to FHLB (including assets backing funding agreements)	=	-	-	-	-	-	-	-	-	-	-		
m.	Pledged as collateral not captured in other categories	-	-	-	-	-	-	-	-	-	-	-		
n.	Other restricted assets	-	-	-	-	-	-	-						
0.	Total restricted assets	\$ 4,265,185	\$ -	\$ -	\$ -	\$ 4,265,185	\$ 4,234,661	\$ 30,524	\$ -	\$ 4,265,185	0.088%	0.089%		

⁽a) Subset of column 1

⁽b) Subset of column 3

⁽c) Column 5 divided by Asset Page, Column 1, Line 28

⁽d) Column 9 divided by Asset Page, Column 3, Line 28

(2) Detail of Assets Pledged as Collateral Not Captured in Other Categories (Contracts that Share Similar Characteristics, Such as Reinsurance and Derivatives Are Reported in the Aggregate)

		Gross	(Admitted	& Nonad	mitted) Res	stricted		8	Percentage	
		С	urrent Yea	ar		6	7	8		
	1	2	3	4	5				9	10
	To									
		G/A	Separate					Total Current	`	Admitted Restricted
	Total	Supporting	Account	S/A Assets					Nonadmitted)	
	General S/A (S/.			Supporting	Total	Total from	Increase/	Admitted	Restricted to	Admitted
Description of Assets	Account (G/A)	Activity (a)	Restricted Assets	G/A Activity (b)	Total (1 plus 3)	Prior Year	(Decrease) (5 minus 6)	Restricted	Total Assets (d)	Assets (e)
Description of Assets	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	- (0)	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	=	-	-	-	-	=
Total (c)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-

- (a) Subset of column 1
- (b) Subset of column 3
- (c) Total Line for Column 1 through 7 should equal 5H (1) in Columns 1 through 7 respectively and Total Line for Columns 8 through 10 should equal 5H (1) Columns 9 through 11 respectively
- (d) Column 5 divided by Asset Page, Column 1, Line 28
- (e) Column 9 divided by Asset Page, Column 3, Line 28
- Oetail of Other Restricted Assets (Contracts that Share Similar Characteristics, Such as Reinsurance and Derivatives, Are Reported in the Aggregate)

		Gross	(Admitted	& Nonad	mitted) Res	stricted			Perce	ntage
		С	urrent Ye	ar		6	7	8	9	10
	1	2	3	4	5					
			Total							Admitted Restricted
		G/A	Separate					Total Current	Gross (Admitted &	to Total
	General S/A (S/A)			S/A Assets				Year	Nonadmitted)	Admitted
Description of Associa				Supporting			Increase/	Admitted	Restricted to	Assets
Description of Assets				G/A Activity	Total	Total from	(Decrease)	Restricted	Total Assets	
	(G/A)	(a)	Assets	(b)	(1 plus 3)	Prior Year	(5 minus 6)		(d)	(e)
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-
	-	-	=	-	-	-	-	=	-	ī
		-	-	-	-	-	-	-	-	ı
*Total (c)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-

- (a) Subset of column 1
- (b) Subset of column 3
- (c) Total Line for Columns 1 through 7 should equal 5H(1)mn Columns 1 through 7 respectively and Total Line for Columns 8 through 10 should equal 5H(1)mn Columns 9 through 11 respectively
- (d) Column 5 divided by Asset Page, Column 1, Line 28 $\,$
- (e) Column 9 divided by Asset Page, Column 3, Line 28 $\,$
- 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 does not currently hold derivatives, repurchase agreements, reverse repurchase agreements or securities lending assets and liabilities.
- k. Structured notes:

A structured note is a direct debt issuance by a corporation, municipality, or government entity, ranking pari-passu with the issuer's other debt issuance of equal seniority where either: (a) the coupon and/or principal payments are linked, in whole or in part, to prices or payment streams from index or indices, or assets deriving their value from other than the issuer's credit quality, or (b) the coupon and/or principal payments are leveraged by a formula that is different from either a fixed coupon, or a non-leveraged floating rate coupon linked to an interest rate index, including but not limited to the London Interbank Offered Rate (LIBOR) or the prime rate. As structured notes are issuer obligations without a trust, they are within the scope of SSAP No. 26, "Bonds, Excluding Loan-backed and Structured Securities" (SSAP No. 26). Structured notes are different than the asset backed structured securities, which are accounted for under SSAP No. 43R, "Revised - Loan-Backed and Structured Securities" (SSAP No. 43R), as they lack either a trust or assets

backing them. The disclosure below allows regulators to assess the volume of activity in structured notes and to determine whether additional accounting or reporting revisions, such as valuation and risk-based capital, are needed. To satisfy this request, the Company is required to separately identify structured notes, on a CUSIP basis and provide information by CUSIP for actual cost, fair value, book/adjusted carrying value, and whether the structured note is a mortgage-referenced security. The following sets forth the actual cost, fair value and carrying value of structured notes as of December 31, 2016:

CUSIP				Pook / Adjusted	Mortgage- Referenced
Identification	Actual Cost		ir Value	Book / Adjusted Carrying Value	Security (YES/NO)
luentincation	Actual Cost	Г	ili value	Carrying value	(TE3/NO)
391164AF7	\$ 526,870	\$	515,124	\$ 520,744	NO
Total	\$ 526,870	\$	515,124	\$ 520,744	XXX

5* Securities - The Company did not have any 5* rated securities.

Note 6 - Joint Ventures, Partnerships and Limited Liability Companies

- a. The Company did not have any individual investment in joint ventures, partnerships or LLCs exceeding 10% of admitted assets for the years ended December 31, 2016 and 2015.
- b. The Company did not have any investment in joint ventures, partnerships and LLCs, therefore, no impairment write-downs were recognized for the years ended December 31, 2016 or 2015.

Note 7 - Investment Income

- a. Accrued investment income consists primarily of interest and dividends. Interest is recognized on an accrual basis and dividends are recorded as earned on the ex-dividend date.
- b. For the year ended December 31, 2016, there was \$1,760 due and accrued investment income excluded from surplus and for the year ended December 31, 2015, there was no due and accrued investment income excluded from surplus.

Note 8 - Derivative Instruments

The company did not have any derivative instruments for the years ended December 31, 2016 or 2015.

Note 9 - Income Taxes

- A. The Company provides for deferred income taxes based on an admissibility limitation of 15% of surplus and a three year reversal/realization period.
 - 1. The net DTA or net deferred tax liability (DTL) recognized in the Company's assets, liabilities and surplus is as follows:

		December 31, 2016						
			Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	21,397,576	\$	10,350 -	\$	21,407,926	
(c)	Adjusted gross DTAs		21,397,576		10,350		21,407,926	
(d) (e)	DTAs nonadmitted Subtotal net admitted DTA		13,733,302 7,664,274		10,350		13,733,302 7,674,624	
(f)	Total gross DTLs		415,398		1,074,624		1,490,022	
	-							
(g)	Net admitted DTA(L)	\$	7,248,876	\$	(1,064,274)	\$	6,184,602	
				Dece	mber 31, 2015			
			Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	8,393,456 -	\$	58,037 -	\$	8,451,493 -	
(c)	Adjusted gross DTAs		8,393,456		58,037		8,451,493	
(d)	DTAs nonadmitted		3,847,610		-		3,847,610	
(e)	Subtotal net admitted DTA		4,545,846		58,037		4,603,883	
(f)	Total gross DTLs	_	441,533		415,409		856,942	
(g)	Net admitted DTA(L)	\$	4,104,313	\$	(357,372)	\$	3,746,941	
					Change			
			Ordinary		Capital		Total	
(a) (b)	Gross DTAs Statutory valuation allowance adjustment	\$	13,004,120	\$	(47,687)	\$	12,956,433	
(c)	Adjusted gross DTAs		13,004,120		(47,687)		12,956,433	
(d)	DTAs nonadmitted	_	9,885,692		-		9,885,692	
(e)	Subtotal net admitted DTA		3,118,428		(47,687)		3,070,741	
(f)	Total gross DTLs	_	(26,135)		659,215		633,080	
(g)	Net admitted DTA(L)	\$	3,144,563	\$	(706,902)	\$	2,437,661	

2. The amount of adjusted gross DTA admitted under each component and the resulting change by tax character are as follows:

				December 31, 2016			
			Ordinary		Capital		Total
(a) (b)	Federal income taxes paid in prior years recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1	\$	6,174,252	\$	10,350	\$	6,184,602
	and 2(b)2 below)1. Adjusted gross DTAs expected to be realized following the balance sheet		-		10,350		10,350
	dateAdjusted gross DTAs allowed per		-		10,350		10,350
(c)	limitation threshold Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b)		35,965,381		10,350		35,965,381
(d)	above) offset by gross DTLs DTAs admitted as the result of application of SSAP no. 101		1,490,022		-		1,490,022
	Total $(2(a) + 2(b) + 2(c))$	\$	7,664,274	\$	10,350	\$	7,674,624
				Decer	mber 31, 2015		
		_	Ordinary	Decei	Capital		Total
(a) (b)	Federal income taxes paid in prior years recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs	\$	3,737,285	\$	9,657	\$	3,746,942
	from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1 and 2(b)2 below)		-		-		-
	Adjusted gross DTAs expected to be realized following the balance sheet date		-		-		-
(c)	 Adjusted gross DTAs allowed per limitation threshold Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b) 		33,137,324		-		33,137,324
(d)	above) offset by gross DTLs DTAs admitted as the result of application		808,561		48,380		856,941
,	of SSAP no. 101 Total (2(a) + 2(b) + 2(c))	\$	4,545,846	\$	58,037	\$	4,603,883
					Change		
		_	Ordinary		Capital		Total
(a) (b)	Federal income taxes paid in prior years recoverable through loss carrybacks Adjusted gross DTAs expected to be realized (excluding the amount of DTAs	\$	2,436,967	\$	693	\$	2,437,660
	from 2(a) above) after application of the threshold limitation (the lesser of 2(b)1 and 2(b)2 below)		-		10,350		10,350
	 Adjusted gross DTAs expected to be realized following the balance sheet date 		_		10,350		10,350
	Adjusted gross DTAs allowed per limitation threshold		2,828,057		10,350		2,828,057
(c)	Adjusted gross DTAs (excluding the amount of DTAs from 2(a) and 2(b)						
(d)	above) offset by gross DTLs DTAs admitted as the result of application		681,461		(48,380)		633,081
. ,	DTAs admitted as the result of application of SSAP no. 101 Total (2(a) + 2(b) + 2(c))	\$	3,118,428	\$	(47,687)	\$	3,070,741
							

3. The Company's total realization threshold limitations are as follows:

		Years Ended December 31,					
		 2016		2015			
(a)	Ratio percentage used to determine recovery period and threshold limitation amount	11,734%		8,785%			
(b)	Amount of adjusted capital and surplus used to determine recovery period and threshold limitation in 2(b)2 above.	\$ 239,769,205	\$	220,915,494			

4. The ultimate realization of DTAs depends on the generation of future taxable income during the periods in which the temporary differences are deductible. Management considers the scheduled reversal of DTLs (including the impact of available carryback and carryforward periods), projected taxable income and tax-planning strategies in making this assessment. The impact of tax-planning strategies is as follows:

				December 31, 2016					
				Ordinary		Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	21,397,576	\$	10,350			
	2.	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies		-%		-%			
	3.	Net admitted DTAs amount from Note 9A1(g)	\$	7,248,876	\$	(1,064,274)			
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		-%		-%			
				Decemb	er 31	I, 2015			
				Ordinary		Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	8,393,456	\$	58,037			
	2.	by tax character attributable to the impact of tax planning strategies		-%		-%			
	3.	Net admitted DTAs amount from Note 9A1(g)	\$	4,104,313	\$	(357,372)			
	4.	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies		-%		-%			
				CI	hang	9			
			_	Ordinary	larig	Capital			
(a)	net a	ermination of adjusted gross DTAs and admitted DTAs, by tax character as a entage.							
	1.	Adjusted Gross DTAs amount from Note 9A1(c)	\$	13,004,120	\$	(47,687)			
	2.	Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies		-%		-%			
	3.			3,144,563	\$	(706,902)			
	Percentage of net admitted DTAs by tax character attributable to the impact of tax planning strategies			\$ 3,144,563 \$ (706,90 %					
(b)		s the Company's tax planning egies include the use of reinsurance?		Yes_	_	No_X_			

B. The Company does not have any deferred tax liabilities not recognized.

C. The provision for current tax expense on earnings is as follows:

1.			Years Ended December 31,									
		<u>-</u>		2016		2015		Change				
	(a)		\$	25,634,294	\$	6,658,379	\$	18,975,915				
	(b)	Foreign _					_					
	(c)	Subtotal		25,634,294		6,658,379		18,975,915				
	(d)	Federal income tax on net capital gains		100,797		102,412		(1,615)				
	(e)	Utilization of capital loss carry-forwards		-		-		-				
	(f)	Other		_		_	_					
	(g)	Federal and foreign income taxes incurred	\$	25,735,091	\$	6,760,791	\$	18,974,300				

The tax effects of temporary differences that give rise to significant portions of the DTAs and DTLs are as follows:

2.	Def	erred Tax Assets:	2016	December 31, 2015	Change
	(a)	Ordinary			
		(1) Discounting of unpaid losses	\$ -	\$ -	\$ -
		(2) Unearned premium reserve(3) Policyholder reserves(4) Investments	1,365,845	1,442,988	(77,143)
		(4) Investments(5) Deferred acquisition costs(6) Policyholder dividends accrual	7,557,217 -	6,471,395 -	1,085,822
		(7) Fixed assets(8) Compensation and benefits accrual	-	-	-
		(9) Pension accrual(10) Receivables - nonadmitted	-	-	-
		(11) Net operating loss carry-forward (12) Tax credit carry-forward	-	-	-
		(13) Other	12,474,514	479,073	11,995,441
		(14) Subtotal	21,397,576	8,393,456	13,004,120
	(b)	Statutory valuation allowance adjustment Nonadmitted	13,733,302	3,847,610	9,885,692
	(d)	Admitted ordinary DTAs (2a14 - 2b - 2c)	7,664,274	4,545,846	3,118,428
	(e)	Capital (1) Investments (2) Net capital loss carry-forward (3) Real estate (4) Other (5) Subtotal	10,350 - - - - 10,350	58,037 - - - - - - 58,037	(47,687) - - - - (47,687)
	(f)	Statutory valuation allowance adjustment Nonadmitted			
	(g)			<u>-</u>	
	(h)	Admitted capital DTAs (2e5 - 2f - 2g)	10,350	58,037	(47,687)
		Admitted DTAs (2d + 2h)	7,674,624	4,603,883	3,070,741
3.	Def	erred Tax Liabilities:			
	(a)	Ordinary			
		(1) Investments(2) Fixed Assets	-	-	-
		(3) Deferred and uncollected premium (4) Policyholder reserves	409,764	411,292 19,075	(1,528) (19,075)
		(5) Other	5,634	11,166	(5,532)
	(b)	(6) Subtotal Capital	415,398	441,533	(26,135)
	(D)		4.074.004	445 400	050 045
		(1) Investments(2) Real estate(3) Other	1,074,624 -	415,409	659,215
		(4) Subtotal	1,074,624	415,409	659,215
	(c)	Total DTLs (3a6 + 3b4)	1,490,022	856,942	633,080
4.	Net	DTA(L) (2i - 3c)	\$ 6,184,602	\$ 3,746,941	\$ 2,437,661

The change in net deferred income taxes is comprised of the following:

		Years Ended December 31,			
			2016		2015
(1)	Net DTA(L)	\$	12,323,353	\$	(1,309,067)
	Less: Items not recorded in the change in net deferred income taxes:		-		-
(2) (3)	Tax-effect of unrealized gains/(losses) Tax-effect of change in accounting method for pensions		(10,350)		- -
(4)	Change in net deferred income taxes	\$	12,313,003	\$	(1,309,067)

D. The components of federal and foreign income tax on operating items are recorded on the Summary of Operations and Capital and Surplus Account and are different from that which would be obtained by applying the prevailing federal income tax rate to operating income before taxes. The significant items causing this difference are as follows:

	Years Ended Dece 2016	ember 31, 2015
 (1) Provision computed at statutory rate (2) Nonadmitted assets (3) Foreign governmental income taxes (4) Expense items (5) Investment items (6) Tax credits (7) Change in reserve valuation basis (8) Other 	\$ 16,135,800 \$ (783) - 43 (2,202,223) (510,749)	9,664,689 - - (11,438) (1,818,901) - - 235,508
Total statutory income tax expense (benefit)	\$ 13,422,088 \$	8,069,858
(9) Federal and foreign income tax benefit (10) Change in net deferred income taxes	\$ 25,735,091 \$ (12,313,003)	6,760,791 1,309,067
Total statutory income tax expense (benefit)	\$ 13,422,088 \$	8,069,858

Ε.

- (1) As of December 31, 2016, the Company had no net operating or capital loss carryforwards to include in deferred income taxes. The Company has no total tax credit carryforwards.
- (2) The Company paid federal income taxes of \$3,948,825 in 2016 and \$4,335,481 in 2015.
- (3) As of December 31, 2016 and 2015, the Company had no protective deposits recognized as admitted assets.

F.

- (1) The Company is included in a consolidated United States (U.S.) federal income tax return with its parent, Massachusetts Mutual Life Insurance Company (MassMutual), a mutual life insurance company domiciled in the Commonwealth of Massachusetts, and MassMutual's eligible subsidiaries. The Company also files income tax returns in various states and foreign jurisdictions.
- (2) The Company, MassMutual, and MassMutual's eligible subsidiaries and certain affiliates (the Parties) have executed and are subject to a written tax allocation agreement (the Agreement). The Agreement sets forth the manner in which the total combined federal income tax is allocated among the Parties. The Agreement provides the Company with the enforceable right to recoup federal income taxes paid in prior years in the event of future net losses, which it may incur. Further, the Agreement provides the Company with the enforceable right to utilize its net losses carried forward as an offset to future net income subject to federal income taxes.

G.

- (1) Companies are generally required to disclose unrecognized tax benefits, which are the tax effect of positions taken on their tax returns that may be challenged by the various taxing authorities, in order to provide users of financial statements more information regarding potential liabilities. The Company recognizes tax benefits and related reserves in accordance with existing SAP for liabilities, contingencies and impairments of assets.
- (2) On December 18, 2015, the Preventing Americans from Tax Hikes Act of 2015 (the PATH Act) was enacted and provides for a multi-year extension of this provision through 2019. The PATH Act extends 50% bonus depreciation to 2015 through 2017, it then phases down to 40% for 2018 and 30% for 2019. The extension of these tax provisions are not expected to have a material effect on the Company's financial position or liquidity.
- (3) The Internal Revenue Service (IRS) has completed its examination of the returns filed for years 2010 and prior. The IRS is currently auditing the years 2011 through 2013 and expects to conclude in early 2017. The Company does not expect a material change in its financial position or liquidity as a result of these audits.

Note 10 - Information Concerning Parent, Subsidiaries and Affiliates

- a. The Company is a wholly owned subsidiary of C.M. Life Insurance Company (C.M. Life), a stock life insurance company domiciled in the state of Connecticut.
- b. The Company did not have any material non-insurance related party transactions during the years ended December 31, 2016 or 2015.
- c. See Schedule Y for SCA activity.

- d. The Company reported \$125,904 as amounts due from parent, subsidiaries and affiliates as of December 31, 2016 and \$281,646 as of December 31, 2015. The Company reported \$2,310,794 as amounts due to parent, subsidiaries and affiliates as of December 31, 2016 and \$2,208,982 as of December 31, 2015. Terms require settlement of these amounts within 30 to 90 days.
- e. The Company has a modified coinsurance (Modco) quota-share reinsurance agreement with MassMutual where the Company cedes 100% of the premium on certain bank-owned life insurance policies. In return, MassMutual pays the Company a stipulated expense allowance, death and surrender benefits. The Company retains the assets and related reserves for payment of future benefits on the ceded policies. The Modco adjustment is the mechanism by which MassMutual funds the reserve on the reinsured portion of the risk. It is needed to adjust for the financial effect of the Company holding the reserves on the ceded coverage rather than MassMutual.

The Company also has a stop-loss agreement with MassMutual under which the Company cedes claims which, in aggregate, exceed 0.70% of the covered volume for any year, with maximum coverage of \$25,000,000 above the aggregate limit. The aggregate limit was \$26,580,728 in 2016 and \$27,886,888 in 2015 and it was not exceeded in either year.

The Company has a quota-share reinsurance agreement with MassMutual in which MassMutual assumes specific plans of insurance on a yearly renewable term basis.

The net amounts outstanding and due from MassMutual for the various reinsurance agreements were \$27,193,102 as of December 31, 2016 and \$27,234,467 as of December 31, 2015. These outstanding balances are due and payable with terms ranging from monthly to annually, depending on the agreement in effect.

The following summarizes reinsurance transactions between the Company and MassMutual:

	Years Ended December 31,			
		2016		2015
Premium expense ceded, related to:				
Stop-loss agreements	\$	(307,860)	\$	(331,585)
Quota-share reimbursement agreements		(7,057,869)		(7,246,897)
Modified coinsurance adjustments ceded, included in				
fee and other income		(9,330,809)		(15,069,413)
Expense allowances on reinsurance ceded, included in fees and other expense, related to:				
Modified coinsurance agreements		5,738,728		5,631,364
Policyholders' benefits ceded, related to:				
Modified coinsurance agreements		7,959,719		13,714,401
Quota-share reimbursement agreements		4,940,395		1,991,246
Experience refunds (paid) received, related to:				
Stop-loss agreements		76,963		82,898
Modified coinsurance agreements		(1,135)		(451,213)

f. Pursuant to a management agreement, MassMutual, for a fee, furnishes to the Company, as required, operating facilities, human resources, computer software development and managerial services. Investment and administrative services are also provided to the Company pursuant to a management services agreement with MassMutual. While management believes that these fees are calculated on a reasonable basis, these fees may not necessarily be indicative of the costs that would have been incurred on a standalone basis.

The following table summarizes the transactions between the Company and the related parties:

	Years Ended December 31,			
	2016 2015		2015	
Fee income:				
Recordkeeping and other services	\$	700,000	\$	730,084
Investment advisory income		1,700,000		1,540,537
Fee expense:				
Management and service contracts and cost-sharing				
arrangements		8,962,070		9,086,299

The Company participates in variable annuity exchange programs with MassMutual, where certain variable annuity contract holders can make a nontaxable exchange of their contracts for enhanced MassMutual variable annuity contracts. The Company did not record any surrender benefits in 2016 or 2015 related to these exchange programs.

- g. All outstanding shares of the Company were owned by its parent.
- h. The Company does not have an investment in its parent.
- i. As of December 31, 2016, the Company did not have an investment in SCAs exceeding 10% of admitted assets.
- j. In 2016, the Company recognized \$6,452 in impairment write-downs on its investments in affiliated bonds.
 - In 2015, the Company recognized \$2,337 in impairment write-downs on its investments in affiliated bonds.

The Company does not have an impairment write-down of any SCA entities during the statement periods.

- The Company has no foreign insurance subsidiary whose value is calculated by adjusting annuity GAAP account value reserves using the Commissioners' Annuity Reserve Valuation Method and the related Actuarial Guidelines.
- The Company does not hold an investment in a downstream noninsurance holding company. I.
- The Company does not have investments in foreign or noninsurance SCAs. m.
- The Company does not have any insurance SCAs for which the audited statutory equity reflects a departure from NAIC statutory accounting practices.

Note 11 -

The Company did not have any capital notes or liability for borrowed money as of December 31, 2016 or 2015. a.

The Company did not have any debt that was considered to be extinguished by in-substance defeasance.

The Company did not set aside assets after the effective date of this statement solely for satisfying debt obligations.

The Company is not a member of the Federal Home Loan Bank (FHLB) therefore it has no FHLB funding agreements.

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

- The Company did not have any defined benefit pension plans for which the reporting entity is directly liable. a.
- b. The Company did not have any pension plans for which the reporting entity is directly liable.
- The Company did not have any pension plans for which the reporting entity is directly liable. C.
- The Company did not have any pension plans for which the reporting entity is directly liable. d.
- The Company did not have any defined contribution plans. e.
- The Company did not have multi-employer plans. f.
- Consolidated/Holding Company Plans:
 - MassMutual charges allocated expenses to the Company based on relative weighted commissions for agents and time studies of its The Company recorded an expense of \$891,540 for the year ended December 31, 2016 and \$867,587 for the year employees. ended December 31, 2015 for these plans.
- The Company does not accrue for postemployment benefits and compensated absences since it does not have any employees.
- The Company did not have any plans under the Medicare Modernization Act. i.

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

- (1) The Company had 50,000 shares of common stock authorized, 12,501 shares issued and outstanding as of December 31, 2016. The par value of the common stock is \$200 per share.
- (2) The Company did not have any preferred stock outstanding.
- (3) Without the prior approval of the Insurance Commissioner of the State of Connecticut (the Commissioner), total dividends paid to the Company's shareholder in a twelve month period are limited to the greater of (i) 10% of the Company's surplus as of December 31 of the preceding year or (ii) the net gain from operations for the twelve month period ending on December 31 of the preceding year; each case is determined using statutory accounting policies. In addition, the prior approval of the Commissioner is required if any dividend or distribution exceeds the Company's earned surplus. Under these regulations, \$28,294,439 of shareholder's equity is available for distribution to the shareholder in 2017 without prior regulatory approval.
- (4) The Company did not pay a dividend to C.M. Life in 2016.
- Within the limits of (3) above, there are no restrictions placed on the portion of Company profits that may be paid as ordinary (5)dividends to the stockholder.
- (6) There are no restrictions on unassigned surplus funds.
- (7) The Company did not make any advances to surplus.
- (8) The Company did not have any stock held for special purposes.
- (9) The Company does not have any special surplus funds.
- (10) The portion of unassigned funds (surplus) represented by net unrealized gains and losses (cumulative, net of deferred tax) was (\$19,222) as of December 31, 2016. The Company did not have unassigned funds (surplus) represented by net unrealized gains and losses (cumulative, net of deferred tax) as of December 31, 2015.
- (11) The Company did not have any surplus debentures or similar obligations.
- (12) There were no restatements due to prior quasi-reorganizations.
- (13) There were no quasi-reorganizations in the prior ten years.

Note 14 - Liabilities, Contingencies and Assessments

Contingent commitments

In the normal course of business, the Company enters into commitments to purchase certain investments. The majority of these commitments have funding periods that extend between one and five years. The Company is not required to fund commitments once the commitment period expires. As of December 31, 2016 or 2015, the Company had no commitments.

Assessments:

The Company is subject to insurance guaranty fund laws in the states in which it does business. These laws assess insurance companies' amounts to be used to pay benefits to policyholders and policy claimants of insolvent insurance companies. Many states

allow these assessments to be credited against future premium taxes. The Company believes such assessments in excess of amounts accrued will not materially impact its financial position, results of operations or liquidity.

Gain contingencies: C.

No material gain contingencies were realized subsequent to December 31, 2016 through the filing date.

- The Company did not have any claims related to extra contractual obligations in 2016.
- The Company has no joint and several liabilities. e.

f. All other contingencies:

The Company is involved in litigation arising in the normal course of business, which seeks compensatory damages, 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.

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

The Company did not have any lease obligations.

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

There were no contracts for the years ended December 31, 2016 or 2015.

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

- During 2016 and 2015, the Company did not transfer any receivables that that were reported as sales.
- Transfer and Servicing of Financial Assets:
 - The Company did not participate in securities lending as of December 31, 2016 or 2015. (1)
 - (2)The Company did not have any servicing assets or liabilities in 2016 or 2015.
 - The Company did not have any servicing assets or liabilities in 2016 or 2015. (3)
 - (4) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2016 or 2015.
 - The Company did not have any transfers of financial assets accounted for as secured borrowing in 2016 or 2015. (5)
 - (6)The Company did not have any transfers of receivables with recourse in 2016 or 2015.
 - (7)See Note 5e2 "Repurchase Agreements".

Wash sales:

- In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days of (1) the sale date to enhance the Company's yield on its investment portfolio.
- The Company did not sell any securities with the NAIC Designation 3 or below for the year ended December 31, 2016 or 2015, that were reacquired within 30 days of the sale date.

Note 18 – Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans The Company did not write any accident and health plans. Therefore, the Company did not have any uninsured accident and health

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

The Company did not have any premium written through managing general agents or third party administrators.

Note 20 - Fair Value Measurements

- 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 the 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 maintains 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 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 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 are valued using cash flow projections from the Company's asset-liability management analysis.

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

	December 31, 2016					
	Level 1	Level 2	Level 3	Total		
Financial assets:						
Bonds:						
Parent, subsidiaries and affiliates	\$ -	\$ 524,103	\$ -	\$ 524,103		
Separate account assets ⁽¹⁾	922,485,384	2,302,419,763	-	3,224,905,147		
Total financial assets carried						
at fair value	\$ 922,485,384	\$ 2,302,943,866	<u> </u>	\$ 3,225,429,250		

⁽¹⁾\$1,087,146,232 of book value separate account assets are not carried at fair value and, therefore, are not included in this table

For the year ended December 31, 2016, there were no significant transfers between Level 1 and Level 2.

	December 31, 2015				
	Level 1	Level 2	Level 3	Total	
Financial assets:					
Separate account assets ⁽¹⁾	\$ 920,856,788	\$ 2,266,948,730	\$	- \$ 3,187,805,518	
Total financial assets carried					
at fair value	\$ 920,856,788	\$ 2,266,948,730	\$	- \$ 3,187,805,518	

⁽¹⁾\$1,091,012,604 of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

For the year ended December 31, 2015, there were no significant transfers between Level 1 and Level 2.

- 2. The Company does not have any Level 3 financial instruments that are carried at fair value.
- 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 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.

- 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 Note 21 Other Items.
- c. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

			December 31, 20)16			
	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	No Practio (Carr Valu	cable ying
Financial assets:							
Bonds:							
U. S. government and agencies	\$ 39,216,346	\$ 39,357,823	\$ - \$	39,216,346	\$ -	\$	-
Special revenue	72,640	66,143	-	72,640	-		-
Industrial and miscellaneous	266,229,273	264,388,709	-	252,459,408	13,769,865		-
Parent, subsidiaries and affiliates	6,442,873	6,404,131	-	6,442,873	-		-
Mortgage loans - residential	3,921,346	4,007,088	-	-	3,921,346		-
Cash, cash equivalents and							
short-term investments	62,691,625	62,691,625	(2,302,765)	64,994,390	-		-
Separate account assets	4,320,299,668	4,312,051,379	923,105,179	3,381,127,144	16,067,345		-
Financial liabilities:							
Individual annuity contracts	2,225,733	3,061,780	-	-	2,225,733		-
Supplementary contracts	11,538,373	11,424,132	-	-	11,538,373		-

				December 31,	20	15		
	-	Aggregate Fair Value	Admitted Assets	Level 1		Level 2	Level 3	Not racticable (Carrying Value)
Financial assets:								,
Bonds:								
U. S. government and agencies	\$	54,012,879	\$ 54,269,462	\$ -	\$	54,012,879	\$ -	\$ -
Special revenue		97,732	88,536	-		97,732	-	-
Industrial and miscellaneous		167,805,616	166,830,245	-		156,151,861	11,653,755	-
Parent, subsidiaries and affiliates		1,667,302	1,640,703	-		1,667,302	-	-
Mortgage loans - residential		5,745,384	5,847,458	-		-	5,745,384	-
Cash, cash equivalents and								
short-term investments		61,289,428	61,289,428	1,211,195		60,078,233	-	-
Separate account assets		4,285,418,011	4,278,818,122	920,856,788		3,345,522,236	19,038,987	-
Financial liabilities:								
Individual annuity contracts		2,266,224	3,168,097	-		-	2,266,224	-
Supplementary contracts		9,928,086	9,829,788	-		-	9,928,086	-

d. For the year ended December 31, 2016, the Company had no investments where it was not practicable to estimate fair value.

Note 21 - Other Items

- a. There were no unusual or infrequent items requiring disclosure.
- b. There were no troubled debt restructurings that occurred during the period for which the financial statements are presented.
- c. Other disclosures:

The Company had assets on deposit with government authorities or trustees, as required by law, in the amount of \$4,265,185 as of December 31, 2016 and \$4,234,661 as of December 31, 2015.

Business risks

The Company operates in a business environment subject to various risks and uncertainties. The principal risks include insurance and underwriting risks, investment and interest rate risks and credit risk.

Insurance and underwriting risks

The Company prices its products based on estimated benefit payments reflecting assumptions with respect to mortality, longevity, persistency, interest rates and other factors. If actual policy experience emerges that is significantly and adversely different from assumptions used in product pricing, the effect could be material to the profitability of the Company. The Company reinsures certain life insurance and other long-term care insurance policies to mitigate the impact of its underwriting risk.

Investment and interest rate risks

The fair value, cash flows and earnings of investments can be influenced by a variety 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. By effectively matching the market sensitivity of assets with the liabilities they support, the impact of interest rate changes is addressed, on an economic basis, as the change in the value of the asset is offset by a corresponding change in the value of the supported liability.

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 amortization or prepayment speeds that are slower than those 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.

Interest rates also have an impact on the Company's products with guaranteed minimum payouts and on interest credited to account holders. As interest rates decrease, investment spreads may contract as crediting rates approach minimum guarantees, resulting in an increased liability.

In periods of increasing interest rates, policy loans, surrenders and withdrawals may increase as policyholders seek investments with higher perceived returns. This could result in cash outflows requiring the Company to sell invested assets at a time when the prices of those assets are adversely affected by the increase in market interest rates, which could cause the Company to realize investment losses.

Credit and other market risks

The Company manages its investments to limit credit and other market risks by diversifying its portfolio among various security types and industry sectors as well as purchasing credit default swaps to transfer some of the risk.

Stressed conditions, volatility and disruptions in capital markets or financial asset classes can have an adverse effect on the Company, in part because the Company has a large investment portfolio and assets supporting the Company's insurance liabilities are sensitive to changing market factors. Market factors, including interest rates, credit spread quality, equity prices, consumer spending, business investment, government spending, the volatility and strength of the capital markets, deflation and inflation, all affect the business and economic environment and, ultimately, the profitability of the Company's business. Disruptions in one market or asset class can also spread to other markets or asset classes. Upheavals in the financial markets can also affect the Company's business through their effects on general levels of economic activity, employment and customer behavior.

The CMBS, RMBS and leveraged loan sectors are sensitive to evolving conditions that can impair the cash flows realized by investors and is subject to uncertainty. Management's judgment regarding OTTI and estimated fair value depends upon the evolving investment sector and economic conditions. It can also be affected by the market liquidity, a lack of which can make it difficult to obtain accurate market prices for RMBS and other investments, including CMBS and leveraged loans. Any deterioration in economic fundamentals, especially related to the housing sector could affect management's judgment regarding OTTI.

The Company has investments in structured products exposed primarily to the credit risk of corporate bank loans, corporate bonds or credit default swap contracts referencing corporate credit risk. Most of these structured investments are backed by corporate loans and are commonly known as collateralized loan obligations that are classified as CDOs. The portfolios backing these investments are actively managed and diversified by industry and individual issuer concentrations. Due to the complex nature of CDOs and the reduced level of transparency to the underlying collateral pools for many market participants, the recovery in CDO valuations generally lags the overall recovery in the underlying assets. Management believes its scenario analysis approach, based primarily on actual collateral data and forward looking assumptions, does capture the credit and most other risks in each pool. However, in a rapidly changing economic environment, the credit and other risks in each collateral pool will be more volatile and actual credit performance of CDOs may differ from the Company's assumptions.

The Company continuously monitors its investments and assesses their liquidity and financial viability; however, the existence of the factors described above, as well as other market factors, could negatively impact the market value of the Company's investments. If the Company sells its investments 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.

Asset-based fees calculated as a percentage of the separate account assets are a source of revenue to the Company. Gains and losses in the investment markets may result in corresponding increases and decreases in the Company's separate account assets and related revenue.

Political Uncertainties

Political events, such as the ongoing volatility with respect to the European Union, may trigger or exacerbate the risk factors described above. Whether those underlying risk factors are driven by politics or not, the Company's dynamic approach to managing risks enables us to utilize the mitigating actions described above to attempt to reduce the potential impact of each underlying risk factor on the Company.

- d. The Company did not receive any business interruption recoveries in 2016.
- e. The Company did not have unused transferable or non-transferable state tax credits as of December 31, 2016.
- f. Subprime mortgage related risk exposure: As of December 31, 2016 and 2015, the Company did not have any direct exposure through investments in subprime mortgage loans.
 - (1) Direct exposure through other investments:

RMBS risk exposure:

Portfolios of ABS, including RMBS and CMBS, are evaluated on a periodic basis using scenarios customized by collateral type. The Company performs sensitivity analysis on defaults as loan-to-values change, and on defaults as prepayments change using default curves under various scenarios. The Company combines scenario analysis with a monthly surveillance process in which it compares actual delinquencies and defaults to expectations established at the time securities are acquired as well as expectations considering current market conditions, and performs a statistical review to determine potential losses relative to credit support of troubled loan exposures on a transaction-by-transaction basis.

Management used a combination of external vendor prices, broker quotations and internal models for purposes of deriving fair value. Internal inputs used in the determination of fair value included estimates of prepayment speeds, default rates, discount rates and collateral values, among others. Structure characteristics and results of cash flow priority are also considered. Fair values resulting from internal models are those expected to be received in an orderly transaction between willing market participants at the financial statement date.

The Company holds certain investments backed by pools of residential mortgages. The majority of these investments are included in bonds. The mortgages in these pools have varying risk characteristics and are commonly categorized as being of U.S. government agency, non-agency prime, Alt-A and subprime borrower quality. The Alt-A category includes option adjustable rate mortgages and the subprime category includes 'scratch and dent' or reperforming pools, high loan-to-value pools, and pools where the borrowers have very impaired credit but the average loan-to-value is low, typically 70% or below at origination. In identifying Alt-A and subprime exposure, management used a combination of qualitative and quantitative factors, including FICO scores and loan-to-value ratios.

Residential mortgage loan pools are homogeneous residential mortgage loans substantially backed by FHA and VA guarantees. The Company purchases seasoned loan pools, most of which are FHA insured or VA guaranteed. The Company does not originate any residential mortgages but invests in residential mortgage loan pools which may contain mortgages of subprime credit quality. As of December 31, 2016 and 2015, the Company did not have any direct subprime exposure through purchases of unsecuritized whole-loan pools.

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

					`	Year Ended
_		Dece	December 31, 2016			
	Actual	(Carrying	Fair		
Alt-A:	Cost		Value	Value		OTTI
a. Residential mortgage-backed securities \$	2,025,204	\$	1,322,448	\$ 1,746,541	\$	19
b. Commercial mortgage-backed securities	-		-	-		-
c. Collateralized debt obligations	-		-	-		-
d. Structured securities	-		-	-		-
e. Equity investments in subsidiary	-		-	-		-
and controlled affiliates	-		-	-		-
f. Other assets	-		-	-		
g. Total	2,025,204	\$	1,322,448	\$ 1,746,541	\$	19

				Year Ended ember 31, 2016				
		Actual		Carrying		Fair		_
Subprime:		Cost		Value	Value	OTTI		
a. Residential mortgage-backed securities	\$	3,193,121	\$	1,803,842	\$	2,235,591	\$	6,452
b. Commercial mortgage-backed securitie	S	-		-		-		-
c. Collateralized debt obligations		-		-		-		-
d. Structured securities		-		-		-		-
e. Equity investments in subsidiary		-		-		-		-
and controlled affiliates		_		-		-		-
f. Other assets		-		-		-		
g. Total	\$	3,193,121	\$	1,803,842	\$	2,235,591	\$	6,452
			_					Year Ended
				ember 31, 2015	5		Dece	ember 31, 2015
		Actual	(Carrying		Fair		
Alt-A:		Cost		Value		Value		OTTI
a. Residential mortgage-backed securities	\$	2,337,013	\$	1,542,651	\$	1,965,258	\$	-
b. Commercial mortgage-backed securitie	S	-		-		-		-
c. Collateralized debt obligations		-		-		-		-
d. Structured securities		-		-		-		-
e. Equity investments in subsidiary								
and controlled affiliates		-		_		_		-
f. Other assets		-		-		-		-
g. Total	\$	2,337,013	\$	1,542,651	\$	1,965,258	\$	-
			_		_			Year Ended
				ember 31, 201	5		Dec	ember 31, 2015
		Actual		Carrying		Fair		
Subprime:		Cost		Value		Value		OTTI
a. Residential mortgage-backed securities	\$	3,612,086	\$	1,934,794	\$	2,412,225	\$	2,337
the Communication of the classical and additional and the communication of the communication								

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

\$

1,934,794

2,412,225

2,337

3,612,086

g. Retained asset accounts:

(2)

(1) The Company offers the use of retained asset accounts as one of the options available to beneficiaries. This option must be affirmatively elected and is not treated as a default. An unaffiliated third party provider services certain aspects of the retained asset accounts. Beneficiaries draw funds from retained asset accounts utilizing drafts. The Company funds those drafts through an unaffiliated bank. During the reporting year, the interest earned by beneficiaries was an annual effective rate of 0.25% and did not change within the reporting year. There is no fee charged to the beneficiary to establish this account. There are no maintenance or service fees. A \$12 stop payment fee, a \$10 insufficient funds fee and a \$2 duplicate draft fee will apply. Assets and liabilities relating to retained asset accounts remain with the Company and are reported within the Company's financial statements as assets and supplemental contracts without life contingencies.

Retained Asset Accounts In Force December 31,

b. Commercial mortgage-backed securities

c. Collateralized debt obligations

e. Equity investments in subsidiary and controlled affiliates

d. Structured securities

f. Other assets

g. Total

	2	2016		2015				
	Number		Balance	Number		Balance		
Account aging categories:						_		
a. Up to and including 12 months	5	\$	533,222	11	\$	1,047,109		
b. 13 to 24 months	6		266,396	7		555,173		
c. 25 to 36 months	7		427,586	2		62,619		
d. 37 to 48 months	2		11,056	5		334,569		
e. 49 to 60 months	3		292,422	-		-		
f. Over 60 months	1		<u>-</u>					
g. Total	24	\$	1,530,682	25	\$	1,999,470		

- g. Ceding entities that utilize captive reinsurers to assume reserves subject to the XXX/AXXX captive framework.
 - (1) Ceding reinsurers in which a risk-based capital shortfall exists per the risk-based capital XXX/AXXX captive reinsurance consolidated exhibit:
 - a. Captives with risk-based capital shortfall

Cession ID	NAIC Company Code	ID Number	Name of Captive Insurer	ris	nount of k-based capital hortfall
			None	\$	
			None	\$	
			None	\$	
Total					
b. Effect of risk	k-based capita	I shortfall on to	otal adjusted capital (TAC)		
 Total adjust 	sted capital (TA	AC) (Five-Yea	ar Historical Line 30)	\$	-
2. Risk-based	d capital shortf	all (Sum of g	(1)a1 Column 5)	\$	-
3. Total adjus	sted capital (TA	AC) before risk	-based capital shortfall (g(1)b1 + g(1)b2))	\$	-

 Captive reinsurers for which a non-zero primary security shortfall is shown on the risk-based capital XXX/AXXX reinsurance primary security shortfall by cession exhibit:

Cession ID	NAIC Company Code	ID Number	Name o	of Captive Insurer	Amount of primary security shortfall
·			None		\$
			None		\$
			None		\$ <u>-</u>
Total					

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 2016 for incurred losses and loss adjustment expenses attributable to insured events of prior years, which were considered corrections of prior year errors.

Note 26 - Intercompany Pooling Arrangements

The Company did not have any intercompany pooling arrangements.

Note 27 – Structured Settlements

The Company did not enter into structured settlement agreements with other life insurers to resolve claims.

Note 28 - Health Care Receivables

The Company did not issue any business that would give rise to pharmaceutical rebates or risk sharing receivables.

Note 29 - Participating Policies

The Company did not issue participating policies.

Note 30 - Premium Deficiency Reserves

The Company did not have any liability for premium deficiency on accident and health contracts or property/casualty contracts.

Note 31 - Reserves for Life Contracts and Annuity Contracts

- (1) The Company waives deduction of deferred fractional premium at death and returns any portion of the final premium beyond the date of death. Reserves are computed using continuous functions to reflect these practices. Surrender values were not promised in excess of the legally computed reserves.
- (2) The Company charges a higher premium on certain contracts that cover substandard mortality risk. For these policies, the reserve calculations are based on a substandard mortality rate, which is a multiple of the standard mortality tables.
- (3) The Company did not have any insurance in force as of December 31, 2016, for which the gross premium was less than the net premium according to the standard valuation set by the Department.
- (4) Tabular interest was determined for Variable life general account reserves using a formula that applies a weighted average credited rate to the mean account value.
- (5) Liabilities for investment-type contracts such as supplementary contracts not involving life contingencies are based on account value or accepted actuarial methods using applicable interest rates. Refer to Note 20 a. "Fair Value Measurements" for information on the Company's policy for determining fair value.

(6) The details for other changes:

					Ordir	ary			Group
							Credit Life		
			Industrial	Life	Individual	Supplementary	Group and	Life	
	ITEM	Total	Life	Ins.	Annuities	Contracts	Individual	Ins.	Annuities
			_		_	_			
None	9	\$ -	\$ -	\$ -	\$ -	\$ -	- \$	\$ -	\$ -

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

		December 31, 2016							
				Separate		Separate			
			General	Account w/		Account		% of	
			Account	Guarantees	No	onguaranteed	Total	Total	
a.	Subject to discretionary withdrawal:								
	(1) With market value adjustment	\$	2,140,128	\$ -	- \$	- \$	2,140,128	4 %	
	(2) At book value less current surrender								
	charge of 5% or more		-	-	-	-	-	-	
	(3) At fair value		-	-	-	40,005,301	40,005,301	73	
	(4) Total with market value adjustment or at fair value		2,140,128	-		40,005,301	42,145,429	78	
	(5) At book value without adjustment		11,424,132	-	-	-	11,424,132	21	
b.	Not subject to discretionary withdrawal provision		806,212	-	-	-	806,212	1	
C.	Total (gross)		14,370,472	-	-	40,005,301	54,375,773	100	
d.	Reinsurance ceded	_		-	•	-	-		
e.	Total (net)* (gross less reinsurance ceded)	\$	14,370,472	\$ -	- \$	40,005,301 \$	54,375,773	100 %	

^{*}Reconciliation of total annuity actuarial reserves and deposit-type fund liabilities.

f. Life and Accident and Health Annual Statement:

(1)	Exhibit 5, annuities section, total (net)	\$ 2,822,073
(2)	Exhibit 5, supplementary contracts with life contingencies section, total (net)	-
(3)	Exhibit 7, deposit-type contracts Column 1, Line 14	11,548,399
(4)	Subtotal	14,370,472
Sep	arate Accounts Annual Statement:	_
(5)	Exhibit 3, annuities section, total (net)	40,005,301
(6)	Exhibit 3, supplementary contracts section, total (net)	-
(7)	Policyholders dividend and coupon accumulations	-
(8)	Policyholder premiums	-
(9)	Guaranteed interest contracts	-
(10)	Other contract deposit funds	_
(11)	Subtotal	40,005,301
(12)	Combined total	\$ 54,375,773

g. The Company is not a member of the FHLB therefore it has no FHLB funding agreements.

Note 33 - Premium and Annuity Considerations Deferred and Uncollected

 Deferred and uncollected life insurance premiums and annuity considerations as of December 31, 2016, were as follows:

	Туре	Gross	Net of Loading			
(1)	Industrial	\$ -	\$	-		
(2)	Ordinary new business	-		-		
(3)	Ordinary renewal	(1,919,834)		(1,931,433)		
(4)	Credit life	-		-		
(5)	Group life	(191,696)		(191,696)		
(6)	Group annuity	 -		-		
(7)	Totals	\$ (2,111,530)	\$	(2,123,129)		

Note 34 - Separate Accounts

a. Separate account activity:

(1) Separate accounts are segregated funds administered and invested by the Company. Selection of the separate account investments is directed by group and individual variable annuity, variable life and other insurance contract holders/policyholders. The returns produced by separate account assets increase or decrease separate account reserves. Separate account assets consist principally of marketable securities reported at fair value. Except for the Company's seed money, as noted below, separate account assets can only be used to satisfy separate account liabilities and are not available to satisfy the general obligations of the Company. Separate account administrative and investment advisory fees are included in fees and other income.

The separate account classification of all separate account products for the Company is supported by state statute Connecticut Laws Title 38a, Chapter 700b, Sections 38a-433 & 459.

(2) In accordance with the products recorded within the separate accounts, some are considered legally insulated whereas others are not legally insulated from the general account. The legal insulation of the separate account products prevents assets other than seed money or amounts in a supplemental account from being generally available to satisfy claims resulting from the general account.

As of December 31, 2016 and 2015, the Company's NAIC Separate Account Annual Statement included Separate Accounts with legally insulated products of \$4,312,051,379 and \$4,261,455,504, respectively. Assets backing products which are not legally insulated are available to satisfy general obligations of the Company. The assets backing legally insulated products from the general account as of December 31, 2016 are attributed to the following:

Concrete Assert Assets

		Separate Ad	count	Assets
	Legally			Not Legally
		Insulated		Insulated
Product/Transaction:				
Stable Value Bank-Owned Life Insurance	\$	2,264,393,436	\$	-
Bank-Owned Life Insurance - Guaranteed		1,087,146,232		15,349,830
Individual Variable Universal Life		688,935,153		-
Corporate-Owned Life Insurance		231,545,801		-
Individual Variable Annuity		40,030,757		
Total	\$	4,312,051,379	\$	15,349,830

(3) In accordance with the products/transactions recorded within the separate accounts, some separate account liabilities are guaranteed by the general account. Reserves for guarantees covering death benefits or minimum rates of return are held in the general account. If the investment proceeds are insufficient to cover the rate of return guaranteed for the product or the guaranteed death benefit, the policyholder proceeds will be remitted by the general account.

As of December 31, 2016, the general account of the Company had a maximum guarantee for separate account liabilities of \$7,427,245. To compensate the general account for the risk taken, the separate accounts have paid risk charges as follows for the past five years:

For the year ended December 31, 2016, the general account of the Company had paid \$517,611 toward separate account guarantees. The total separate account guarantees paid by the general account for the preceding years ending December 31, 2015, 2014, 2013, and 2012 was \$386,032, \$163,645, \$610,923, and \$499,761, respectively.

The following separate account products would be classified differently under GAAP than under Statutory accounting principles:

	Condition That Requires GAAP General Account Reporting
Product Identifier:	
Stable Value Bank-Owned Life Insurance	GAAP general account classification/Investment performance
Bank-Owned Life Insurance - Guaranteed	GAAP general account classification/Investment performance

- (4) The Company does not engage in securities lending transactions within the separate accounts.
- General nature and characteristics of separate account business:

The Company has guaranteed separate accounts classified as nonindexed to fund a long-term interest guarantee in excess of a year that does not exceed 4%. The Company has nonguaranteed separate accounts that are variable accounts where the benefit is determined by the performance and/or market value of the investments held in the separate account with incidental risk, notional expense and minimum death benefit guarantees.

Information regarding the separate accounts of the Company as of and for the year ended December 31, 2016 is as follows:

			Index	Nonindexed Guarantee Less than/ Equal to 4%	Nonindexed Guarantee More than 4%	Nonguaranteed Separate Accounts	Total
(1)	Premiums, considerations or deposits for the year ended December 31, 2016						
		\$	- \$	- \$	- \$	34,228,357 \$	34,228,357
Reserve	s at December 31, 2016: For accounts with assets at:						
a.	Fair value	\$	- \$	- \$	- \$	3,197,382,963 \$	3,197,382,963
b.	Amortized cost		-	1,093,245,701	-	-	1,093,245,701
C.	Total Reserves*	\$	- \$	1,093,245,701 \$	- \$	3,197,382,963 \$	4,290,628,664
(3) a.	By withdrawal characteristics: Subject to discretionary withdrawal:	\$	- \$	- \$	- \$	- \$	-
	 With market value adjustment At book value without market value adjustment and with current surrender charge of 5% or more 	,	- -	- -	-	-	-
-	At fair value At book value, without market value adjustment and with current surrender charge of		-	-	-	3,197,382,963	3,197,382,963
_	less than 5%		-	1,093,245,701	-		1,093,245,701
b.	Subtotal Not subject to discretionary withdrawal	\$	- \$	1,093,245,701 \$	- \$	3,197,382,963 \$	4,290,628,664
C.	Total	\$	- \$	1,093,245,701 \$	- \$	3,197,382,963 \$	4,290,628,664
(4)	Reserves for Assets Default Risk in Lieu of AVR	\$	- \$	- \$	- \$	- \$	_

December 31, 2016

Reconciliation of net transfers (from) to separate accounts is as follows:

(1)	Separate Account Statement:	
	(a) Transfers to separate accounts (Page 4, Line 1.4 and 2)	\$ 34,228,357
	(b) Transfers from separate accounts (Page 4, Line 10)	 (69,798,506)
	(c) Net transfers to (from) separate accounts (a) - (b)	(35,570,149)
(2)	Reconciling adjustments:	
	(a) Net deposits on deposit-type liabilities	
(3)	Transfers as reported in the Summary of Operations of the Life, Accident & Health Annual Statement	\$ (35,570,149)
	(1c) + (2) = (Page 4, Line 26)	

Note 35 – Loss/Claim Adjustment Expenses

The Company did not have any loss/claim adjustment expenses.

^{*}Line 2(c) should equal Line 3(h)

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES GENERAL

1.1	Is the reporting entity a member of an Insurance Holding Company System is an insurer?			s[X] No []
1.2	If yes, did the reporting entity register and file with its domiciliary State Insur such regulatory official of the state of domicile of the principal insurer in the providing disclosure substantially similar to the standards adopted by the N its Model Insurance Holding Company System Regulatory Act and model is subject to standards and disclosure requirements substantially similar to the	e Holding Company System, a registration statement National Association of Insurance Commissioners (NAIC) in regulations pertaining thereto, or is the reporting entity	Yes [X]	No [] N/A []
1.3	State Regulating?		С	onnect	ticut
2.1	Has any change been made during the year of this statement in the charter reporting entity?] e] No [X]
2.2	If yes, date of change:			• [1 []
3.1	State as of what date the latest financial examination of the reporting entity	was made or is being made		2/31/	2014
3.2	State the as of date that the latest financial examination report became ava entity. This date should be the date of the examined balance sheet and no		-	2/31/	2014
3.3	State as of what date the latest financial examination report became availat domicile or the reporting entity. This is the release date or completion date examination (balance sheet date).	e of the examination report and not the date of the	(05/31/	2016
3.4	By what department or departments? State of Connecticut Insurance Department				
3.5	Have all financial statement adjustments within the latest financial examinat statement filed with Departments?	tion report been accounted for in a subsequent financial	Yes []	No [] N/A [X]
3.6	Have all of the recommendations within the latest financial examination rep	oort been complied with?	Yes [X]	No [] N/A []
4.1		s of the reporting entity), receive credit or commissions for or			
4.2	During the period covered by this statement, did any sales/service organiza receive credit or commissions for or control a substantial part (more than 2 premiums) of:	ation owned in whole or in part by the reporting entity or an aff		SΙ] NO [X]
	4.21 sales of r	new business?] No [X]] No [X]
5.1	Has the reporting entity been a party to a merger or consolidation during the	e period covered by this statement?	Ye	s [] No [X]
5.2	If yes, provide the name of the entity, NAIC Company Code, and state of doceased to exist as a result of the merger or consolidation.	omicile (use two letter state abbreviation) for any entity that he	as		
	1 Name of Entity	2 3 NAIC Company Code State of Domicile			
6.1	Has the reporting entity had any Certificates of Authority, licenses or registratevoked by any governmental entity during the reporting period?			s [] No [X]
6.2	If yes, give full information:				
7.1	Does any foreign (non-United States) person or entity directly or indirectly or	control 10% or more of the reporting entity?	Y6	s [] No [X]
7.2	If yes, 7.21 State the percentage of foreign control;	ity is a mutual or reciprocal, the nationality of its manager or	<u>-</u>		%
	1 Nationality	2 Type of Entity			

ANNUAL STATEMENT FOR THE YEAR 2016 OF THE C.M. Life Insurance Company

	Is the company affiliated with one or more banks, thrifts or secur If response to 8.3 is yes, please provide below the names and lo regulatory services agency [i.e. the Federal Reserve Board (FF Insurance Corporation (FDIC) and the Securities Exchange Co	rities firms? poation (city and state of the main office) of any affil RB), the Office of the Comptroller of the Currency (C	iates regulated DCC), the Fed	d by a fe eral Dep	deral	Yes [X J	•]
	1	2	3	4	5	6			
	Affiliate Name Baring International Investment Limited	Location (City, State)	FRB	OCC	FDIC	SEC	_		
	Baring Securities, LLC	London, UK			+	YES.			
	MML Distributors, LLC								
	MML Investment Advisers, LLC	Enfield CT				1/50			
	MML Investors Services, LLC					YES			
	MML Strategic Distributors, LLC	Springfield MA							
	MMLISI Financial Alliances, LLC	Springfield MA				1/			
	MSI Financial Services, Inc.								
	OppenheimerFunds Distributor, Inc.	New York NV							
	Society of Grownups, LLC	Springfield MA				YES.			
	The MassMutual Trust Company, FSB					120.			
	The massmutual flust company, rob	Littleta, 01		120	-				
).1	KPMG, LLP, One Financial Plaza, Hartford, CT 06103 Has the insurer been granted any exemptions to the prohibited r requirements as allowed in Section 7H of the Annual Financial law or regulation? If the response to 10.1 is yes, provide information related to this	Reporting Model Regulation (Model Audit Rule), or exemption:	substantially	similar s	tate	Yes []	No [Х]
	Has the insurer been granted any exemptions related to the othe allowed for in Section 18A of the Model Regulation, or substant If the response to 10.3 is yes, provide information related to this	er requirements of the Annual Financial Reporting Natially similar state law or regulation?	Model Regulat	ion as		Yes []	No [Х]
14									
,	* **	•							
).5	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain	oliance with the domiciliary state insurance laws?			Yes [X] No	[] N/A	[
).5).6 1.	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain	bliance with the domiciliary state insurance laws? The reporting entity or actuary/consultant associated to concertification?	with an actuar	ial consu	Yes [X] No	[] N/A	[
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0.5 0.6 11. 2.1 2.2 3.3 3.4 1.1	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain What is the name, address and affiliation (officer/employee of the firm) of the individual providing the statement of actuarial opinic Douglas W Taylor, FSA, MAAA, Vice President and Appointed A Does the reporting entity own any securities of a real estate hold 12.11 Name o 12.12 Number 12.13 Total bo lf, yes provide explanation: The Company held investments in debt and equity securities in 8 December 31, 2016 of debt and equity was \$183,295,133 and 3 investments in LP and LLC entities that own real estate. These 2016. FOR UNITED STATES BRANCHES OF ALIEN REPORTING E What changes have been made during the year in the United St. Does this statement contain all business transacted for the repo Have there been any changes made to any of the trust indenture If answer to (13.3) is yes, has the domiciliary or entry state approfuse the senior officers (principal executive officer, principal finan similar functions) of the reporting entity subject to a code of eth (a) Honest and ethical conduct, including the ethical handling of relationships;	poliance with the domiciliary state insurance laws? The reporting entity or actuary/consultant associated to on/certification? Actuary, 1295 State Street, Springfield, MA 01111 ding company or otherwise hold real estate indirectly of real estate holding company See 12.2 of parcels involved pok/adjusted carrying value. The Company also held investments had a statement value of \$78,592,657 (Investments had a statement value of \$78,59	with an actuar y? The statemer 33 parcels the 7 as of Decem eporting entity s wherever locations, or persons personal and pro	ial consultation in the value arough liber 31,	Yes [X	Yes [82 \$	X]	No [200,00 No [No [] N/A]
0.5 0.6 1. 2.1 2.2 3.1 3.2 3.3 3.4 1.1	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain What is the name, address and affiliation (officer/employee of th firm) of the individual providing the statement of actuarial opinic Douglas W Taylor, FSA, MAAA, Vice President and Appointed A Does the reporting entity own any securities of a real estate hold 12.11 Name o 12.12 Number 12.13 Total bo If, yes provide explanation: The Company held investments in debt and equity securities in 8 December 31, 2016 of debt and equity was \$183,295,133 and investments in LP and LLC entities that own real estate. These 2016. FOR UNITED STATES BRANCHES OF ALIEN REPORTING E What changes have been made during the year in the United St Does this statement contain all business transacted for the repo Have there been any changes made to any of the trust indenture If answer to (13.3) is yes, has the domiciliary or entry state approx Are the senior officers (principal executive officer, principal finan similar functions) of the reporting entity subject to a code of eth (a) Honest and ethical conduct, including the ethical handling of relationships; (b) Full, fair, accurate, timely and understandable disclosure in the (c) Compliance with applicable governmental laws, rules and reg (d) The prompt internal reporting of violations to an appropriate g (e) Accountability for adherence to the code.	poliance with the domiciliary state insurance laws? The reporting entity or actuary/consultant associated to procertification? Actuary, 1295 State Street, Springfield, MA 01111 ding company or otherwise hold real estate indirectly freal estate holding company See 12.2 To parcels involved pook/adjusted carrying value. The Company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of the company also held investments had a statement value of \$78,592,657 destricts of the result of \$78,592,657 destricts of the resul	with an actuar y? The statemer 33 parcels the 7 as of Decem eporting entity s wherever locations, or persons personal and pro	ial consultation in the value arough liber 31,	Yes [X	Yes [82 F	X]	No [200,00 No [No [] N/A]
0.5 0.6 1. 2.1 2.2 3.1 3.2 3.3 3.4 1.1	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain What is the name, address and affiliation (officer/employee of th firm) of the individual providing the statement of actuarial opinic Douglas W Taylor, FSA, MAAA, Vice President and Appointed A Does the reporting entity own any securities of a real estate hold 12.11 Name o 12.12 Number 12.13 Total bo If, yes provide explanation: The Company held investments in debt and equity securities in 8 December 31, 2016 of debt and equity was \$183,295,133 and investments in LP and LLC entities that own real estate. These 2016. FOR UNITED STATES BRANCHES OF ALIEN REPORTING E What changes have been made during the year in the United St. Does this statement contain all business transacted for the reportave there been any changes made to any of the trust indenture if answer to (13.3) is yes, has the domiciliary or entry state approfuse the senior officers (principal executive officer, principal finan similar functions) of the reporting entity subject to a code of eth (a) Honest and ethical conduct, including the ethical handling of relationships; (b) Full, fair, accurate, timely and understandable disclosure in the (c) Compliance with applicable governmental laws, rules and reg (d) The prompt internal reporting of violations to an appropriate process.	poliance with the domiciliary state insurance laws? The reporting entity or actuary/consultant associated to por/certification? Actuary, 1295 State Street, Springfield, MA 01111 ding company or otherwise hold real estate indirectly of real estate holding company See 12.2 of parcels involved	with an actuar y? The statemer 33 parcels the 7 as of Decem reporting entity s wherever locations r, or persons personal and pro- ting entity;	nt value a rough ber 31, cated?	Yes [X	Yes [82 F	X]	No [200,00 No [No [] N/A] 64,26
0.5 0.6 1. 2.1 2.2 3. 3.1 3.2 3.3 3.4 4.1	Has the reporting entity established an Audit Committee in complif the response to 10.5 is no or n/a, please explain What is the name, address and affiliation (officer/employee of th firm) of the individual providing the statement of actuarial opinic Douglas W Taylor, FSA, MAAA, Vice President and Appointed A Does the reporting entity own any securities of a real estate hold 12.11 Name o 12.12 Number 12.13 Total bo If, yes provide explanation: The Company held investments in debt and equity securities in 8 December 31, 2016 of debt and equity was \$183,295,133 and investments in LP and LLC entities that own real estate. These 2016. FOR UNITED STATES BRANCHES OF ALIEN REPORTING E What changes have been made during the year in the United St Does this statement contain all business transacted for the repo Have there been any changes made to any of the trust indenture If answer to (13.3) is yes, has the domiciliary or entry state approx Are the senior officers (principal executive officer, principal finan similar functions) of the reporting entity subject to a code of eth (a) Honest and ethical conduct, including the ethical handling of relationships; (b) Full, fair, accurate, timely and understandable disclosure in the (c) Compliance with applicable governmental laws, rules and reg (d) The prompt internal reporting of violations to an appropriate g (e) Accountability for adherence to the code.	poliance with the domiciliary state insurance laws? The reporting entity or actuary/consultant associated to pon/certification? Actuary, 1295 State Street, Springfield, MA 01111 ding company or otherwise hold real estate indirectly of real estate holding company See 12.2 of parcels involved	with an actuar y? The statemer 33 parcels the 7 as of Decem reporting entity s wherever locations r, or persons personal and pro ting entity;	ial consumit value a rough ber 31, cated?	Yes [X	Yes [82 F	x]	No [200,00 No [No [] N/A]]] []

	SVO Bank List	entity the beneficiary of a Letter of Credit that is unrelated to reinsurance where th !?		Yes [] No [X]
15.2	If the response t	to 15.1 is yes, indicate the American Bankers Association (ABA) Routing Number tter of Credit and describe the circumstances in which the Letter of Credit is trigge	and the name of the issuing or confirming	
	1 American Bankers	2	3	4
	Association (ABA) Routing Number		That Can Trigger the Letter of Credit	Amount
		DO 4 DD OF DIDECTOR	•	
16.		BOARD OF DIRECTOR or sale of all investments of the reporting entity passed upon either by the board of	of directors or a subordinate committee	Yes [X] No []
17.	Does the reporti	ing entity keep a complete permanent record of the proceedings of its board of dir	ectors and all subordinate committees	
18.	Has the reportin	ng entity an established procedure for disclosure to its board of directors or trustee ts officers, directors, trustees or responsible employees that is in conflict with the c	s of any material interest or affiliation on th	e
		FINANCIAL		
19.	Has this stateme	ent been prepared using a basis of accounting other than Statutory Accounting Pr	inciples (e.g., Generally Accepted	V
0.1	Total amount loa	nciples)?aned during the year (inclusive of Separate Accounts, exclusive of policy loans):	20.11 To directors or other officers	Yes [] NO [X]
	Total amount lo	and dailing the year (metablic of expande necessitie, exclusive of pency learney).	20.12 To stockholders not officers	\$
0.2	Total amount of	loans outstanding at the end of year (inclusive of Separate Accounts, exclusive o	(Fraternal Only)f	\$
·	policy loans):	Total of Colonial and a colonial or your (monor of Cooperation monor in Colonial or Coloni	20.21 To directors or other officers	
			20.22 To stockholders not officers	\$
			(Fraternal Only)	\$
1.1	Were any assets	s reported in this statement subject to a contractual obligation to transfer to anoth g reported in the statement?	er party without the liability for such	Yes [] No [X]
1.2		amount thereof at December 31 of the current year:	21.21 Rented from others	\$
			21.22 Borrowed from others	\$
			21.23 Leased from others	
2.1	Does this staten	ment include payments for assessments as described in the Annual Statement Ins	21.24 Other	
۷.۱	guaranty assoc	ciation assessments?		Yes [] No [X]
2.2	If answer is yes:	22	2.21 Amount paid as losses or risk adjustn	nent \$
		20	2.22 Amount paid as expenses 2.23 Other amounts paid	φ
3.1	Does the reporti	ئے۔ ing entity report any amounts due from parent, subsidiaries or affiliates on Page 2		
3.2		any amounts receivable from parent included in the Page 2 amount:		
		INVESTMENT		
4.01		icks, bonds and other securities owned December 31 of current year, over which t session of the reporting entity on said date? (other than securities lending program		
4.02		nd complete information relating thereto		
4.03	whether collate	ding programs, provide a description of the program including value for collateral a eral is carried on or off-balance sheet. (an alternative is to reference Note 17 wher	e this information is also provided)	
4.04	Does the Comp Instructions?	nany's security lending program meet the requirements for a conforming program a	as outlined in the Risk-Based Capital	s [] No [] N/A [X
4.05	If answer to 24.0	04 is yes, report amount of collateral for conforming programs.		\$
4.06	If answer to 24.0	04 is no, report amount of collateral for other programs.		\$
4.07	Does your secur outset of the co	rities lending program require 102% (domestic securities) and 105% (foreign secund notate)	urities) from the counterparty at the	s [] No [] N/A [X
4.08	Does the reporti	ing entity non-admit when the collateral received from the counterparty falls below	100%?Ye	s [] No [] N/A [X
4.09		ing entity or the reporting entity 's securities lending agent utilize the Master Securities lending?		s [] No [] N/A [X

24.10	For the reporting entity's security lending prog	ram state the amount of t	he following as Decen	nber 31 of the cu	ırrent year:			
	24.101 Total fair value of rein							
	24.102 Total book adjusted/c							
	24.103 Total payable for secu	rities lending reported or	the liability page				.\$	
25.1	Were any of the stocks, bonds or other assets control of the reporting entity, or has the reporting entity (Exclude securities subject to Interrog	rting entity sold or transfe	erred any assets subje	ect to a put optio	n contract t	hat is currently in	Yes [X]	No []
25.2	If yes, state the amount thereof at December 3	R1 of the current year:	25.21.9	ubject to renurch	nace agreer	nents	•	
	yoo, state the amount mores at 2000moo.	or or the carrotte years				agreements		
						agreements		
						rchase agreements		
			25.25 P	aced under opti	on agreeme	nts	\$	
			25.26 Le	etter stock or sec	curities rest	ricted as to sale -		
			•	excluding FHLB	Capital Sto	ck	\$	
			25.27 F	HLB Capital Sto	ck		\$	
			25.28 O	n deposit with st	ates		\$	4,265,18
			25.29 O	n deposit with ot	ther regulate	ory bodies	\$	
			25.30 P	eagea as collate an EHLB	erai - exclud	ing collateral pledged	10 •	
			25.31 P	edged as collate	eral to FHLE	3 - including assets	Ψ	
				packing funding	agreements	3 - including assets	\$	
			25.32 O	ther			\$	
25.3	For category (25.26) provide the following:							
	1			2			3	
	Nature of Restriction			Descript	ion		Amount	
26.1	Does the reporting entity have any hedging tra	insactions reported on So	chedule DB?				Yes []	No [X]
26.2	If yes, has a comprehensive description of the If no, attach a description with this statement.	hedging program been r	nade available to the o	lomiciliary state?	?	Yes [] No []	N/A [X
27.1	Were any preferred stocks or bonds owned as issuer, convertible into equity?	of December 31 of the c	urrent year mandatori	y convertible int	o equity, or	at the option of the	Yes []	No [X]
27.2	If yes, state the amount thereof at December 3	31 of the current year					\$	
28.	Excluding items in Schedule E - Part 3 - Spec offices, vaults or safety deposit boxes, were a custodial agreement with a qualified bank or Outsourcing of Critical Functions, Custodial of	all stocks, bonds and other trust company in accorda or Safekeeping Agreemen	er securities, owned the nnce with Section 1, III nts of the NAIC Finance	roughout the cui - General Exam ial Condition Ex	rrent year h ination Con aminers Ha	eld pursuant to a siderations, F. ndbook?	Yes [X]	No []
28.01	For agreements that comply with the requirem	ents of the NAIC Financi	al Condition Examiner	s Handbook, coi	<u> </u>	ollowing:		
	1 Name of Custodian(s)			Custodi	2 an's Addres	c		
	Citibank, N.A.	333 West 3	34th Street, New York		arrs Addres	5		
28.02	For all agreements that do not comply with the and a complete explanation:	requirements of the NAI	C Financial Condition	Examiners Hand	dbook, prov	ide the name, location		
	1 Name(s)		2 Location(s)			3 Complete Explanat	tion(s)	
							<u>.</u>	
	Have there been any changes, including name If yes, give full and complete information relati	•	an(s) identified in 28.0	1 during the curr	ent year?		Yes []	No [X]
	1 Old Custodian	2 New Cus		3 Date of Cha	nge	4 Reaso	n	
		ļ						

ı		1		2					
		Name of Firm or Individual		Affiliation					
	•								
:		lividuals listed in the table for Questic "U") manage more than 10% of the re						Yes	[] No
:	28.0598 For firms/individua	Is unaffiliated with the reporting entity management aggregate to more that	y (i.e. designa	ated with a "U") liste	ed in the table	for Questi	on 28.05, does the		[] No
		ls listed in the table for 28.05 with an							
	1	2		3			4		5 Investme
	Central Registration Depository Number	Name of Firm or Indivi	dual	Legal Entity Id	entifier (I FI)		Registered With		Managen Agreem (IMA) Fil
	106006	Barings LLC		5493005EMQYELJU	JS5W59	SEC			DS
	If yes, complete the following	ig scriedule:		2				Book	3 /Adjusted
	CUSIP#		Name	of Mutual Fund					ing Value
I	29.2999 - Total								
		1		2			3 Amount of Mu Fund's Book/Ad		4
	Name of Mutu	al Fund (from above table)		Name of Significa Mutual		the	Carrying Val Attributable to Holding	ue	Date of Valuation
	Provide the following inform statement value for fair va	nation for all short-term and long-tern lue.	n bonds and a	all preferred stocks	. Do not subs	titute amor	tized value or		
ĺ				1	2		3	1	
			State	ement (Admitted)		(Excess of Statemen over Fair Value (-), o Fair Value over		
ļ	30.1 Bonds			Value 375,211,196	Fair Val		Statement (+) 1,744,325		
Į	30.3 Totals			375,211,196	376,	955,521	1,744,325	<u>i</u>	
	The Fair Value of securities provided by other third-par internal models by discour investment or using quote estimated prepayment spe	ethods utilized in determining the fair is sobtained using quoted market pri- rty organizations. If values provided b nting future cash flows using observa d market values for comparable inve- beds, default rates, discount rates an considered.	ces when ava by other third- ble current m stments. Inter d collateral va	party organizations arket rates applica mal inputs used in alues, among other	are unavailable to yield, cr the determina s. Structure C	ole, fair valo edit quality tion of fair characterist	ue is estimated using and maturity of the value include ics and results of		
,	Was the rate used to calcul	late fair value determined by a broke	r or custodian	for any of the secu	urities in Sche	dule D?		Yes	[X] No
		does the reporting entity have a copused as a pricing source?							[X] No
	If the answer to 31.2 is no, value for Schedule D:	describe the reporting entity's proces	s for determin	ning a reliable prici	ng source for	purposes o	of disclosure of fair		

GENERAL INTERROGATORIES

OTHER

33.1	Amount of payments to trade associations, service organizations and statistical or rating bureaus, if any?		Ф	10,881
33.2	List the name of the organization and the amount paid if any such payment represented 25% or more of the total payment service organizations and statistical or rating bureaus during the period covered by this statement.	ts to trade a	associations,	
	1 2 Name Amou	2 nt Paid		
	American Council of Life Insurers (ACLI)	5,280		
34.1	Amount of payments for legal expenses, if any?		\$	14,554
34.2	List the name of the firm and the amount paid if any such payment represented 25% or more of the total payments for leg during the period covered by this statement.	jal expenses	S	
	1 2 Amou	2 nt Paid		
	Sutherland Asbill & Brennan LLP	9, 181		
35.1	Amount of payments for expenditures in connection with matters before legislative bodies, officers or departments of gov	ernment, if a	any?\$	7,609
35.2	List the name of the firm and the amount paid if any such payment represented 25% or more of the total payment expended connection with matters before legislative bodies, officers or departments of government during the period covered by the		ıt.	
	1 2 Name Amou	2 nt Paid		
	Name Amou	il FaiU		

GENERAL INTERROGATORIES

PART 2 - LIFE INTERROGATORIES

1.1	Does	the reporting entity have any direct Medicare Supplement Insurance in force?		Yes [] No [X]
1.2	If yes	indicate premium earned on U.S. business only		.\$
1.3	What	portion of Item (1.2) is not reported on the Medicare Supplement Insurance Experience	a Evhihit?	\$
1.5		Reason for excluding:		.Ψ
1.4	Indica	te amount of earned premium attributable to Canadian and/or Other Alien not included		¢
		·		
1.5	Indica	te total incurred claims on all Medicare Supplement insurance.		.\$
1.6	Indivi	dual policies:	Most current three years:	•
			1.61 Total premium earned 1.62 Total incurred claims	
			1.63 Number of covered lives	•
			All years prior to most current three years	•
			1.64 Total premium earned	
			1.66 Number of covered lives	
1.7	Group	policies:	Most current three years:	
			1.71 Total premium earned	\$
			1.73 Number of covered lives	
			All years prior to most current three years	
			1.74 Total premium earned	
			1.75 Total incurred claims	
			o Nambor of develor inves	
2.	Healt	n Test:		
			1 2 Current Year Prior Year	
	2.1	Premium Numerator		
	2.2	Premium Denominator		
	2.3 2.4	Premium Ratio (2.1/2.2)		
	2.5	Reserve Denominator		
	2.6	Reserve Ratio (2.4/2.5)	0.0000.000	
3.1	Does	this reporting entity have Separate Accounts?		Yes [X] No []
0.1				
3.2	If yes	has a Separate Accounts Statement been filed with this Department?	Yes [X] No [] N/A [
3.3	What distr	portion of capital and surplus funds of the reporting entity covered by assets in the Sep butable from the Separate Accounts to the general account for use by the general account	parate Accounts statement, is not currently pount?	.\$577,737
3.4		the authority under which Separate Accounts are maintained:		
	Conn	ecticut General Statutes, Section 33a-433 and 33a-459		
3.5	Was	any of the reporting entity's Separate Accounts business reinsured as of December 31?	?	Yes [X] No []
3.6	Has t	ne reporting entity assumed by reinsurance any Separate Accounts business as of Dec	ember 31?	Yes [] No [X]
3.7	Acco	reporting entity has assumed Separate Accounts business, how much, if any, reinsurar ounts reserve expense allowances is included as a negative amount in the liability for "?	Fransfers to Separate Accounts due or accrued	
4.1	by th	ersonnel or facilities of this reporting entity used by another entity or entities or are pers is reporting entity (except for activities such as administration of jointly underwritten groes)?	oup contracts and joint mortality or morbidity	Yes [X] No []
4.2	Net re	imbursement of such expenses between reporting entities:		
			4.21 Paid4.22 Received	\$8, 121,000
5.1	Does	the reporting entity write any guaranteed interest contracts?		Yes [] No [X]
5.2	If yes	what amount pertaining to these lines is included in:	- · · -	
			5.21 Page 3, Line 1	\$
6.	FOR	STOCK REPORTING ENTITIES ONLY:	3.22 Faye 4, LITE 1	Ψ
6.1	Total	amount paid in by stockholders as surplus funds since organization of the reporting ent	iitv:	\$ 143 736 Q1 <i>4</i>
7.	ıotal	dividends paid stockholders since organization of the reporting entity:	7.11 Cash	\$
			7.12 Stock	\$180,000

8.1	Does the company reinsure any Workers' Compensation Carve-Out business defined as: Reinsurance (including retrocessional reinsurance) assumed by life and health insurers of medical, wage loss and death benefits of the occupational illness and accident exposures, but not the employers liability exposures, of business originally written as workers' compensation insurance.] No [X]
8.2	If yes, has the repo	orting entity completed t	he Workers' C	ompensation Carve	e-Out Supplement t	o the Annual State	ement?	Yes [] No []
8.3	If 8.1 is yes, the ar	mounts of earned premi	ums and claim	s incurred in this sta	atement are:				
					1 Reinsurance Assumed	2 Reinsurance Ceded	Retained		
	•								
		ims	,						
8.4	If reinsurance assu 8.34 for Column (with attachme	nt points below \$1,	000,000, the distrib	ution of the amour	nts reported in Lines 8.31 a	and	
			Attachment			Earned	Claim Liability		
			Point			Premium	and Reserve		
	8.41		<\$25,000						
	8.42	4	\$25,000 - 99,9						
	8.43 8.44		§100,000 - 249, §250,000 - 999,						
	8.45		61,000,000 - 555,						
8.5	What portion of ea	arned premium reported	in 8.31, Colum	ın 1 was assumed f	from pools?			\$	
9.1		have variable annuitie	or each type of	guaranteed benefi	t.				
	Туре 1	e2	3 Waiting	4	5	6	7	8	9
	Guaranteed	Guaranteed	Period	Account Value	Total Related	Gross Amount	Location of	Portion	Reinsurance
	Death Benefit _ UP	Living Benefit NONE	Remaining N/A	Related to Col. 3	Account Values 41,980,252	of Reserve	Reserve Exhibit 5	Reinsured N/A	Reserve Credit
		NOTE.					LXIII U U		
10. 10.1	claimant (payee)	as the result of the pure	chase of an anr	nuity from the report	ting entity only:		ained a release of liability f		
10.2	List the name and	location of the insurance	e company pur	chasing the annuiti	es and the stateme	ent value on the pu	irchase date of the annuitie	es.	
	1 2 Statement Va on Purchase E of Annuities P&C Insurance Company And Location (i.e., Present Va							Value se Date ities	
11.1	Do you act as a cu	ıstodian for health savin	igs accounts?.					Yes [] No [X]
11.2	If yes, please prov	ide the amount of custo	dial funds held	as of the reporting	date			\$	
11.3	Do you act as an a	administrator for health	savings accour	nts?				Yes [] No [X]
11.4	If yes, please prov	ide the balance of funds	s administered	as of the reporting	date			\$	

GENERAL INTERROGATORIES

12.1	Are any of the captive affiliates reported on Schedule S, Part 3, authorized reinsurers?	Yes	[] No [] N/A [X]
------	--	-----	---	--------	-------------

12.2 If the answer to 12.1 is yes, please provide the following:

1	2	3	4	Assets	e Credit	
	NAIC			5	6	7
	Company	Domiciliary	Reserve	Letters of	Trust	
Company Name	Code	Jurisdiction	Credit	Credit	Agreements	Other

13. Provide the following for individual ordinary life insurance* policies (U.S. business only) for the current year (prior to reinsurance assumed or ceded):

13.1 Direct Premium Written	\$ 37,393,796
13.2 Total Incurred Claims	\$ 31,322,319
13.3 Number of Covered Lives	 28,065

*Ordinary Life Insurance Includes
Term (whether full underwriting, limited underwriting, jet issue, "short form app")
Whole Life (whether full underwriting, limited underwriting, jet issue, "short form app")
Variable Life (with or without secondary gurarantee)
Universal Life (with or without secondary gurarantee)
Variable Universal Life (with or without secondary gurarantee)

FIVE-YEAR HISTORICAL DATA

Show amounts in whole dollars only, no cents; show percentages to one decimal place, i.e. 17.6.

Show amounts of life insurance in this exhibit in thousands (OMIT \$000)

2016 2016 2016 2016 2016 2016 2016 2017		Show amounts of life insurance in this exhibit in thousands (OMIT \$000) 1 2 3 4 5								
Carbital of Ule Insurances Carbital of Ul			2016	2015	2014	•	-			
1. Outlany - times like and endowment (time 34, Cot. 4, 1985 time 34, Cot. 4, Cot. 4		Life Insurance in Force								
4		(Exhibit of Life Insurance)								
2. Ordinary - Internal Control - Con	1.	Ordinary - whole life and endowment (Line 34, Col.								
4. Great feel (Line 21, Cot. 6) 4. Group, establing PEGLISCHIC (Line 21, Cot. 6) Breas Lines S 24 AC 64. 9. 5. Royalist (Line S 1, Cot. 2) 5. Royalist (Line S 1, Cot. 2) 6. Royalist (Line S 2, Cot. 2) 6. Royalist (Lin			5,292,746	5,683,960	6,050,202	6,484,724	7,022,075			
3. Cornial file (Line 2), Cot 10, 19	2.	Ordinary - term (Line 21, Col. 4, less Line 34, Col.	4 100	4 183	4 420	4 214	4 764			
4. Group, excluding FEGLISSALI (Line 21, Oct 2) 5. Industrial (Line 21, Oct 2) 6. FEGLISSALI (Line 43, 44, Oct 4) 7. Trail (Line 43, 14, Oct 4) 7. Trail (Line 43, 14, Oct 4) 7. Trail (Line 43, 14, Oct 4) 8. FEGLISSALI (Line 43, 14, Oct 4) 9. Trail (Line 43, Oct 4) 9. Trail (Line 43, Oct 4) 9. Grain (Lin	3						, , , , , , , , , , , , , , , , ,			
Lines 43 6.4 (Col. 4)		Group, excluding FEGLI/SGLI/Line 21, Col. 9 less								
FERSIASCULTIME		Lines 43 & 44, Col. 4)	6,939,534	6,952,141	7 , 197 , 793	7,235,356	7,336,331			
12, 255, 389 12, 640, 284 13, 252, 424 13, 724, 283 14, 883, 170	5.	Industrial (Line 21, Col. 2)								
12, 255, 389 12, 640, 284 13, 252, 424 13, 724, 283 14, 883, 170	6.	FEGLI/SGLI (Lines 43 & 44, Col. 4)								
Eighthic of Life Insurance) 2, 237 2, 589 3, 239 4, 157 1, 601 2, 201 2, 207 2, 589 3, 239 4, 157 1, 601 2, 201	7.	Total (Line 21, Col. 10)	12,236,389	12,640,284	13,252,424	13,724,293	14,363,170			
8. Ordinary - whole life and endowment (Line 94, Col. 2) 9. Ordinary - term (Line 2, Col. 4, less Line 34, Col. 2) 9. Ordinary - term (Line 2, Col. 4, less Line 34, Col. 2) 11. Group (Line 2, Col. 5) 12. Industrial (Line 2, Col. 5) 13. Total (Line 2, Col. 10) 14. Total (Line 2, Col. 10) 15. Total (Line 2, Col. 10) 15. Total (Line 2, Col. 10) 16. Credit (Line (Line 2, Col. 10) 17. Industrial (Line 2, Col. 10) 18. Credit (Line 2, Col. 10) 18. A H-proup (Line 2, Col. 10) 18. A H-proup (Line 2, Col. 10) 18. A James (Line 2, Col.		New Business Issued								
2		(Exhibit of Life Insurance)								
9. O'drinary-term (Line 2, Col. 4, less Line 34, Col. 2) 11. Group (Line 2, Col. 5) 12. Total (Line 2, Col. 5) 13. Total (Line 2, Col. 10) 14. Industrial lie (Line 204, Col. 10) 15. O'drinary-term terminates (Line 204, Col. 3) 15. O'drinary-term terminates (Line 204, Col. 5) 16. O'drinary-terminates (Line 204, Col. 5) 17. O'drinary-terminates (Line 204, Col. 4) 17. O'drinary-terminates (Line 204, Col. 5) 18. A H-group (Line 204, Col. 6) 18. A H-group (Line 204, Col. 6) 19. A H-group (Line 204, Col. 10) 19. A Jagregation of all other lines of business (Line 204, Col. 4) 20. O'drinary-terminates (Line 204, Col. 10) 21. Total admitted dasselve sociating Separate Accounts 22. Solar (Line 204, Col. 10) 23. A H-group (Line 204, Col. 10) 24. A B-group (Line 204, Col. 10) 25. Total admitted dasselve sociating Separate Accounts 26. Col. 11) 26. Total admitted dasselve sociating Separate Accounts 27. Total schillary exclusion (Line 204) 28. A H-group (Line 204, Col. 10) 29. Aggregation of all other lines of business (Line 204, Col. 10) 29. Aggregation of all other lines of business (Line 204, Col. 10) 20. Total admitted dasselve sociating Separate Accounts 20. Total admitted dasselve sociating Separate Accounts 29. Aggregation for receivers (Page 9, Line 1) 29. Aggregation of all other lines of business (Line 204, Col. 10) 20. Total admitted dasselve sociating Separate Accounts 20. Aggregation for secretary (Page 9, Line 1) 21. Total admitted dasselve sociating Separate Accounts 20. Aggregation for secretary (Page 9, Line 1) 21. Total admitted dasselve sociating Separate Accounts 22. Aggregation for secretary (Page 9, Line 1) 23. Social Col. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	8.	Ordinary - whole life and endowment (Line 34, Col.								
10. Credit file (Line 2, Col. 6) 12. Industrial (Line 2, Col. 2) 13. Total (Line 2, Col. 19) 14. Industrial (Line 2, Col. 19) 15. Industrial (Line 2, Col. 19) 15. Industrial (Line 2, Col. 19) 16. Industrial (Line 2, Col. 19) 17. Fart (1) 18. Industrial (Line 2, Col. 2) 18. Cortanay-information (Line 20, Col. 4) 18. Cortanay-information (Line 20, Col. 4) 18. Cortanay-information (Line 20, Col. 5) 18. A 8 H-group (Line 20, Col. 5) 18. A 8 H-group (Line 20, Col. 5) 18. A 8 H-group (Line 20, Col. 6) 19. Aggregate of all other lines of business (Line 20, Col. 6) 19. Aggregate of all other lines of business (Line 2) 19. Aggregate of all other lines of business (Line 2) 19. Aggregate of all other lines of business (Line 2) 20. Total labellines sexueling Separate Accounts business (Line 2) 21. Total adjusted sexels excluding Separate Accounts business (Rage 2, Line 28) 22. Total labellines sexueling Separate Accounts business (Rage 3, Line 28) 23. Aggregate is reserves (Rage 3, Line 2) 24. Aggregate is reserves (Rage 3, Line 2) 25. Deposit type contract times (Rage 3, Line 2) 26. Asservaluation reserve (Rage 3, Line 2) 27. Explored (Rage 3, Line 2) 28. Deposit type (Rage 3, Line 2) 29. Not Cash From Operations (Line 11) 29. Total adjusted capital 29. Aggregate is contract times (Rage 3, Line 2) 29. Not Cash From Operations (Line 11) 29. Total adjusted capital 29. Society (Rage 2, Line 2) 29. Not Cash From Operations (Line 11) 29. Total adjusted capital 29. Society (Line							1,601			
11. Group (Line 2, Col. 9) 12. Industrial (Line 2, Col. 10) 13. Total (Line 2, Col. 10) 14. Industrial (Line 20. 4, Col. 2) 15. Ordinary incline (Line 20. 4, Col. 3) 15. Ordinary incline (Line 20. 4, Col. 4) 15. Ordinary incline (Line 20. 4, Col. 5) 17. Group and incline (Line 20. 4, Col. 5) 17. Group and incline (Line 20. 4, Col. 5) 17. Group and incline (Line 20. 4, Col. 5) 17. Group and incline (Line 20. 4, Col. 5) 17. Group and incline (Line 20. 4, Col. 5) 18. A 8-H-group (Line 20. 4, Col. 6) 19. A 8-H-group (Line 20. 4, Col. 6) 19. A 9-H-group (Line 20. 4, Col. 10) 19. Aggregate of all other (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate of all other lines of business (Line 20. 4, Col. 10) 19. Aggregate in the col. 4 10. Total admitted assets excluding Separate Accounts business (Rine 20. 4) 10. Total admitted assets excluding Separate Accounts business (Rine 20. 4) 10. Total admitted assets excluding Separate Accounts business (Rine 20. 4) 10. Total admitted assets excluding Separate Accounts business (Rine 20. Line 20. 4) 10. Total admitted assets excluding Separate Accounts business (Rine 20. Line 20. 4) 10. Total admitted assets excluding Separate Accounts business (Rine 20. Line 20.										
12 Industrial (Line 2, Cot. 2) 2, 237 2, 839 3, 3, 239 4, 1, 157 1, 601										
13. Total (Line 2, Col. 10)		1 \ /								
Pernium Income - Lines of Business (Eshibit 1 - Part 1)		Industrial (Line 2, Col. 2)	0.007	2 222	0.000	4 457	1 001			
(Exhibit 1 - Part 1) Industrial life (Line 20.4, Col. 2) (1102, 942, 667) 22, 332, 572 24, 768, 332 27, 379, 167 29, 580, 586 152. Ordinary-information control (Line 20.4, Col. 4) 21, 760 15, 900 72, 887 149, 952 27, 662 152. Ordinary-information control (Line 20.4, Col. 4) 21, 760 15, 900 72, 887 149, 952 27, 662 152. Ordinary-information (Line 20.4, Col. 5) (17.1 Group life insurance (Line 20.4, Col. 5) (17.2 Group annitise (Line 20.4, Col. 7) (17.3 Group annitise (Line 20.4, Col. 7) (18.1 A & H-group (Line 20.4, Col. 7) (18.1 A & H-group (Line 20.4, Col. 7) (18.1 A & H-group (Line 20.4, Col. 1) (18.2 A & H-group (Line 20.4, Col. 1) (18.2 A & H-group (Line 20.4, Col. 10) (19.3 A gargeste of all other lines of business (Line 20.4, Col. 10) (19.3 A gargeste of all other lines of business (Line 20.4, Col. 11) (19.4 Group annitise (Line 20.4, Col. 10) (19.4 Gr	13.		2,237	2,939	3,239	4,15/				
14. Industrial life (Line 20.4, Col. 2)										
15.1 Ordinary-life insurance (Line 20.4, Col. 3)		,								
15.2 Ordinary-individual annullies (Line 20.4, Col. 4) Cordinary-individual annullies (Line 20.4, Col. 5) Cordinary-individual (Line 20.4, Col. 5) Cordinary-individual (Line 20.4, Col. 5) Cordinary-individual (Line 20.4, Col. 6) Col. 9) Col. 10 Col. 9) Col. 10 Col. 9) Col. 10 Col. 9) Col. 10 Col. 9) C							00 500 500			
16 Credit He (group and individual) (Line 20.4, Col. 6)										
17.1 Group Interinse (Line 20.4, Col. 6)										
17.2 Group annulises (Line 20.4, Col. 7) 18.1 A & H-group (Line 20.4, Col. 8) 18.2 A & H-group (Line 20.4, Col. 10) 19. Aggregate of all other lines of business (Line 20.4, Col. 11) 20. Total 20.4 (Col. 11) 20. Total definited assets excluding Separate Accounts business (Page 2.1, Line 26, Col. 3) 21. Total admitted assets excluding Separate Accounts business (Page 2.1, Line 26, Col. 3) 22. Total liabilities excluding Separate Accounts business (Page 3.1, Line 26) 23. Aggregate in reserves (Page 3.1, Line 28) 24. Aggregate A 2 H reserves (Page 3.1, Line 28) 25. Deposit-yeo contract funds (Page 3.1, Line 2) 26. Asset valuation reserve (Page 3.1, Line 2) 27. Capital (Page 3.1, Line 2) 28. Surplus (Page 3.1, Line 2) 29. Not Cash from (Page 3.1, Line 37) 20. Surplus (Page 3.1, Line 2) 20. Surplus (Page 3.1, Line 2) 21. Total adjusted capital 22. Total liabilities excluding Separate Accounts business (Page 3.1, Line 2) 23. Aggregate A 2 H reserves (Page 3.1, Line 2) 24. Aggregate A 2 H reserves (Page 3.1, Line 2) 25. Deposit-yeo contract funds (Page 3.1, Line 3) 26. Asset valuation reserve (Page 3.1, Line 2) 27. Capital (Page 3.1, Line 3) 28. Surplus (Page 3.1, Line 37) 29. Surplus (Page 3.1, Line 37) 29. Surplus (Page 3.1, Line 37) 29. Not Cash from (Page 5) 29. Not Cash from (Page 5) 30. Not Cash from (Page 5) 31. Authorized control level in K- based capital 29. 482,639 29. 29. 39. 49. 31. Authorized capital Analysis 31. Authorized capital Analysis 32. Stoke, (Line 2) 33. Stoke, (Line 2) 34. Mortgage loans on real estate(Lines 3.1 and 3.2) 35. Real estate (Line 4.1, 4.2 and 4.9) 36. Real estate (Line 4.1, 4.2 and 4.9) 37. Contract based (Line 1) 38. Recurring invested assets (Line 1) 39. Other invested assets (Line 1) 40. Recurvibates for invested assets (Line 1) 40. Recurvibates for invested assets (Line 1) 41. Securities lending environments (Line 1) 42. Aggregate write in so invested assets (Line 1) 43. Cash, cash equivalents and invested assets										
18.1 A & H-group (Line 20.4, Col. 8) 18.2 A & H-croted (group and individual) (Line 20.4, Col. 10) 18.3 A & H-other (Line 20.4, Col. 10) 19. Aggregate of all other lines of business (Line 20.4, Col. 11). 10. Total (105, 853, 696) 11. Total admitted assets excluding Separate Accounts business (Page 2, Line 26, Col. 9). 12. Total liabilities excluding Separate Accounts business (Page 2, Line 26, Col. 9). 12. Total liabilities excluding Separate Accounts business (Page 3, Line 26, Col. 9). 12. Total liabilities excluding Separate Accounts business (Page 3, Line 26, Col. 9). 12. Aggregate life reserves (Page 3, Line 1). 13. System (Page 3, Line 28, Line 1). 14. System (Page 3, Line 28, Line 2). 15. Deposit-type contract funds (Page 3, Line 2). 15. Deposit-type contract funds (Page 3, Line 2). 16. Asset valuation reserve (Page 3, Line 2). 17. Capital (Page 3, Line 28). 18. System (Page 3, Line 28). 28. Surplus (Page 3, Line 37). 28. Syrplus (Page 3, Line 38). 18. System (Page 3, Line 38). 29. Net Cash from Operations (Line 11). 78. 72.52.01 28. Link-Based Capital Analysis 19. Total adjusted capital 29. Syrplus (Page 3, Line 3). 20. Syrplus (P										
18.2 A & H-credit (group and individual) (Line 20.4, Col. 9). 18.3 A & H-other (Line 20.4, Col. 10). 19. Aggregate of all other lines of business (Line 20.4, Col. 11). 20. Total										
Col. 9)										
18.3 A & H-other (Line 20.4, Col. 10) 19. Aggregate of all other lines of business (Line 20.4, Col. 11) 20. Total Balance Sheet (Pages 2 & 3) 21. Total admitted assets excluding Separate Accounts business (Page 2, Line 26, Col. 3) 22. Total idabilities excluding Separate Accounts business (Page 2, Line 26, Col. 3) 23. Aggregate ife reserves (Page 3, Line 26) 24. Aggregate life reserves (Page 3, Line 27) 25. Deposit-Pye contract funds (Page 3, Line 1) 26. Aggregate A & H reserves (Page 3, Line 21) 27. Capital (Page 3, Line 28) 28. Surplus (Page 3, Line 28) 29. Aggregate A aggregate Aggreg	10.2	Col. 9)								
19. Aggregate of all other lines of business (Line 20.4.Col. 1) 17. Total	18.3									
20.4.Col. 11) 20.4 Col. 11) 20.4 Total		Aggregate of all other lines of business (Line								
Balance Sheet (Pages 2 & 3) 21. Total admitted assets excluding Separate Accounts business (Page 2, Line 26, Col. 3) 502, 235, 638 421, 257, 703 396, 121, 986 373, 003, 748 378, 166, 066 22. Total liabilities excluding Separate Accounts business (Page 3, Line 26) 213, 941, 199 189, 956, 688 194, 428, 288 176, 982, 480 181, 938, 986 23. Aggregate life reserves (Page 3, Line 2) 138, 538, 127 136, 618, 028 131, 672, 365 129, 503, 950 124, 285, 572 24. Aggregate A & H reserves (Page 3, Line 3) 11, 548, 399 9, 891, 826 6, 325, 705 6, 841, 283 6, 397, 225 25. Deposit-type contract funds (Page 3, Line 3) 11, 548, 399 9, 891, 826 6, 325, 705 6, 641, 283 6, 397, 225 26. Asset valuation reserve (Page 3, Line 24, 01) 4, 997, 495 4, 666, 310 4, 323, 715 4, 226, 921 3, 830, 096 22. Explose (Page 3, Line 37) 285, 794, 239 228, 800, 805 25, 000, 200 2, 500, 2		20.4,Col. 11)								
21. Total admitted assets excluding Separate Accounts business (Page 2, Line 26, Col. 3). 502,235,638 421,257,703 396,121,996 373,003,748 378,166,063 22. Total iliabilities excluding Separate Accounts business (Page 3, Line 26). 213,941,199 189,956,698 184,428,288 176,992,480 181,938,992 23. Aggregate life reserves (Page 3, Line 1). 138,538,127 136,618,028 131,672,365 129,503,950 124,285,572 24. Aggregate A & H reserves (Page 3, Line 2). 11,549,399 9,891,826 6,325,705 6,841,263 6,397,225 25. Depositype contract funds (Page 3, Line 3). 11,549,399 9,891,826 6,325,705 6,841,263 6,397,225 26. Asset valuation reserver (Page 3, Line 24.01). 4,997,495 4,666,310 4,323,715 4,326,921 3,380,095 27. Capital (Page 3, Line 29 and 30). 2,500,200 2,500,200 2,500,200 2,500,200 2,500,200 28. Surplus (Page 3, Line 37). 285,794,239 228,800,805 209,193,498 193,521,668 193,727,301 28. Surplus (Page 3, Line 37). 285,794,239 228,800,805 209,193,498 193,521,668 193,727,301 29. Net Cash from Operations (Line 11). 78,725,201 28,144,313 16,463,961 23,888,633 34,752,656 Risk-Based Capital Analysis 30. Total adjusted capital 293,291,994 225,967,315 216,017,413 200,348,189 200,057,597 31. Authorized control level risk - based capital 2,482,639 2,652,876 2,641,360 2,597,505 2,658,822 Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 1000 32. Bonds (Line 1). 65.7 57.8 40.8 43.3 42.7 33. Stocks (Lines 2.1 and 2.2). 655.7 57.8 40.8 43.3 42.7 34. Mortgage loans on real estate(Lines 3.1 and 3.2). 0.8 1.5 9. 31.4 27.1 2.7.0 35. Real estate (Lines 4.1, 4.2 and 4.3). 3. 15.9 31.4 27.1 2.7.0 37. Contract loans (Line 6). 20.2 2,24.8 26.6 28.2 28.7 39. Other invested assets (Line 9). 41. Securities lending reinvested collateral assets (Line 10). 42. Aggregate write-ins for invested assets (Line 9). 41. Securities lending reinvested collateral assets (Line 11). 42. Aggregate write-ins for invested assets (Line 11). 42. Aggregate write-ins for invested assets (Line 11). 42. Aggre	20.	Total	(105,853,696)	24,468,709	24,111,798	28,614,570	28,337,739			
business (Page 2, Line 26, Oi. 3) 502,235,638 421,257,703 396,121,966 373,003,748 378,166,065 22. Total liabilities excluding Separate Accounts business (Page 3, Line 26) 213,941,199 189,956,698 184,428,288 176,982,480 181,938,896 23. Aggregate life reserves (Page 3, Line 1) 138,538,127 136,618,028 131,672,365 129,503,950 124,265,572 24. Aggregate A & H reserves (Page 3, Line 2) 22. Deposit-type contract funds (Page 3, Line 3) 11,548,399 9,881,826 6,325,705 6,841,263 6,397,225 26. Asset valuation reserve (Page 3, Line 24,01) 4,997,495 4,666,310 4,323,715 4,326,921 3,830,926 27. Capital (Page 3, Line 37) 285,794,239 228,800,805 209,193,498 139,521,068 139,727,301 28. Surplus (Page 3, Line 37) 285,794,239 228,800,805 209,193,498 139,521,068 139,727,301 29. Net Cash from Operations (Line 11) 78,725,201 28,144,313 16,463,961 23,888,633 34,752,058 30. Total adjusted capital 293,291,994 235,967,315 216,074,113 200,348,189 200,057,597 31. Authorized control level risk - based capital 2,482,639 2,652,876 2,641,360 2,597,505 2,658,822 Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0		Balance Sheet (Pages 2 & 3)								
Total liabilities excluding Separate Accounts business (Page 3, Line 26)	21.	Total admitted assets excluding Separate Accounts	E00 00E 600	401 057 700	206 121 006	272 002 749	270 166 062			
business (Page 3, Line 26) 213,941,199 189,956,688 184,426,288 176,982,480 181,938,986 23. Aggregate life reserves (Page 3, Line 1) 138,538,127 136,618,028 131,672,365 129,503,950 124,285,572 24. Aggregate A & H reserves (Page 3, Line 2) 11,548,399 9,891,826 6,325,705 6,841,283 6,337,225 26. Asset valuation reserve (Page 3, Line 20) 1,590,200 2,500,200 2	00			421,237,703	390, 121, 900	373,003,746	376, 100,003			
23. Aggregate life reserves (Page 3, Line 1) 138,538,127 136,618,028 131,672,365 129,503,950 124,285,572 124, Aggregate A & H reserves (Page 3, Line 2) 11,548,399 9,891,826 6,325,705 6,841,263 6,397,225 6. Asset valuation reserve (Page 3, Line 2401) 4,997,495 4,666,310 4,323,715 4,326,921 3,880,096 27. Capital (Page 3, Line 30) 2,500,200 2,500,	22.	business (Page 3, Line 26)	213,941,199	189,956,698	184,428,288	176,982,480	181,938,986			
24. Aggregate A & H reserves (Page 3, Line 2) 25. Deposit-type contract tunds (Page 3, Line 3) 26. Asset valuation reserve (Page 3, Line 3) 27. Capital (Page 3, Line 32) 28. Surplus (Page 3, Line 37) 28. Surplus (Page 3, Line 37) 285,794,239 228,800,805 29,193,498 228,800,805 29,193,498 238,633 248,633 25,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,500,200 26,5	23.					129,503,950	124,285,572			
25. Deposit-type contract funds (Page 3, Line 3)	24.									
27. Capital (Page 3, Lines 29 and 30)	25.			9,891,826	6,325,705	6,841,263	6,397,225			
27. Capital (Page 3, Lines 29 and 30)	26.	Asset valuation reserve (Page 3, Line 24.01)	4,997,495	4,666,310	4,323,715	4,326,921	3,830,096			
28. Surplus (Page 3, Line 37)	27.	Capital (Page 3, Lines 29 and 30)	2,500,200	2,500,200	2,500,200	2,500,200	2,500,200			
29. Net Cash from Operations (Line 11)	28.			228,800,805	209 , 193 , 498	193,521,068	193,727,301			
Risk-Based Capital Analysis 293,291,934 235,967,315 216,017,413 200,348,189 200,057,597 2,658,823 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505 2,652,876 2,641,360 2,597,505		Cash Flow (Page 5)								
30. Total adjusted capital 293,291,934 235,967,315 216,017,413 200,348,189 200,057,597 31. Authorized control level risk - based capital 2,482,639 2,652,876 2,641,360 2,597,505 2,658,823 Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0 32. Bonds (Line 1)	29.	Net Cash from Operations (Line 11)	78,725,201	28,144,313	16,463,961	23,888,633	34,752,059			
31. Authorized control level risk - based capital 2,482,639 2,652,876 2,641,360 2,597,505 2,658,823 Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0 32. Bonds (Line 1)										
Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0 32. Bonds (Line 1)	30.			, ,	' '		200,057,597			
Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0 32. Bonds (Line 1)	31.	Authorized control level risk - based capital	2,482,639	2,652,876	2,641,360	2,597,505	2,658,823			
(Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3)										
x 100.0 32. Bonds (Line 1)		-								
32. Bonds (Line 1)										
33. Stocks (Lines 2.1 and 2.2) 34. Mortgage loans on real estate(Lines 3.1 and 3.2) 35. Real estate (Lines 4.1, 4.2 and 4.3) 36. Cash, cash equivalents and short-term investments (Line 5) 37. Contract loans (Line 6) 38. Derivatives (Page 2, Line 7) 39. Other invested assets (Line 8) 40. Receivables for securities (Line 9) 41. Securities lending reinvested collateral assets (Line 10) 42. Aggregate write-ins for invested assets (Line 11) 43. Cash, cash equivalents and invested assets	32.		65.7	57.8	40.8	43.3	42.7			
34. Mortgage loans on real estate (Lines 3.1 and 3.2)										
35. Real estate (Lines 4.1, 4.2 and 4.3) 36. Cash, cash equivalents and short-term investments (Line 5) 37. Contract loans (Line 6) 38. Derivatives (Page 2, Line 7) 39. Other invested assets (Line 8) 40. Receivables for securities (Line 9) 41. Securities lending reinvested collateral assets (Line 10) 42. Aggregate write-ins for invested assets (Line 11) 43. Cash, cash equivalents and invested assets	34.	Mortgage loans on real estate(Lines 3.1 and 3.2)	0.8	1.5	1.2	1.4	1.6			
36. Cash, cash equivalents and short-term investments (Line 5)										
37. Contract loans (Line 6) 20.2 24.8 26.6 28.2 28.7 38. Derivatives (Page 2, Line 7) 29. 24.8 26.6 28.2 28.7 39. Other invested assets (Line 8) 29. 29. 20.2 24.8 26.6 28.2 28.7 40. Receivables for securities (Line 9) 29. 29. 20.2 24.8 26.6 28.2 28.7 41. Securities lending reinvested collateral assets (Line 10) 29. 29. 29. 29. 29. 29. 29. 29. 29. 29.		Cash cash equivalents and short-term investments								
38. Derivatives (Page 2, Line 7)										
39. Other invested assets (Line 8)							28.7			
40. Receivables for securities (Line 9) 41. Securities lending reinvested collateral assets (Line 10) 42. Aggregate write-ins for invested assets (Line 11) 43. Cash, cash equivalents and invested assets										
41. Securities lending reinvested collateral assets (Line 10)										
10)										
42. Aggregate write-ins for invested assets (Line 11) 43. Cash, cash equivalents and invested assets	41.									
43. Cash, cash equivalents and invested assets	40	•								
(Line 12) 100.0 100.0 100.0 100.0 100.0		. ,								
, , , , , , , , , , , , , , , , , , , ,	43.	(Line 12)	100.0	100.0	100.0	100.0	100.0			

FIVE-YEAR HISTORICAL DATA

(Continued)

			ontinueu)	_	_	_
		1 2016	2 2015	3 2014	4 2013	5 2012
	Investments in Parent, Subsidiaries and					
	Affiliates					
44.	Affiliated bonds (Schedule D Summary, Line 12, Col. 1)	6,404,131	1,642,655	2,287,569	3,829,163	5,800,979
45.	Affiliated preferred stocks (Schedule D Summary, Line 18, Col. 1)					
46.	Affiliated common stocks (Schedule D Summary Line 24, Col. 1),					
47.	Affiliated short-term investments (subtotal included in Schedule DA Verification, Col. 5, Line 10)					
48.	Affiliated mortgage loans on real estate					
49.	All other affiliated					
50.	Total of above Lines 44 to 49	6,404,131	1,642,655	2,287,569	3,829,163	5,800,979
51.	Total Investment in Parent included in Lines 44 to 49 above					
	Total Nonadmitted and Admitted Assets					
52.	Total nonadmitted assets (Page 2, Line 28, Col. 2)	13,735,539	3,847,610	4,449,066	1, 152,925	2,217,744
53.	Total admitted assets (Page 2, Line 28, Col. 3)					
	Investment Data					
54.	Net investment income (Exhibit of Net Investment Income)	14,288,275	12,852,135	11,616,274	11,832,493	13,066,812
55.	Realized capital gains (losses) (Page 4, Line 34, Column 1)	20,356	(35,042)	160,945	(57,628)	1,940,308
56.	Unrealized capital gains (losses) (Page 4, Line 38, Column 1)	(19.222)				13,889
57.	Total of above Lines 54, 55 and 56	(- , ,	12.817.093	11,777,219	11.774.865	•
07.	Benefits and Reserve Increases (Page 6)	,200, 100				
58.	Total contract benefits - life (Lines 10, 11, 12, 13, 14 and 15 Col. 1, minus Lines 10, 11,12, 13, 14 and 15 Cols. 9, 10 and 11)	93 613 485	96 724 416	95 253 292	163 470 387	194 338 771
59.	Total contract benefits - A & H (Lines 13 & 14, Cols. 9, 10 & 11)					
60.	Increase in life reserves - other than group and annuities (Line 19, Cols. 2 and 3)		4,291,458	1,799,063	4,430,583	12,589,804
61.	Increase in A & H reserves (Line 19, Cols. 9, 10 & 11)					
62.	Dividends to policyholders (Line 30, Col. 1)					
	Operating Percentages					
63.	Insurance expense percent (Page 6, Col. 1, Lines 21, 22 & 23, less Line 6)/(Page 6, Col. 1, Line 1 plus Exhibit 7, Col. 2, Line 2) x 100.0	47.6	23.9	34.3	27.0	26.7
64.	Lapse percent (ordinary only) [(Exhibit of Life Insurance, Col. 4, Lines 14 & 15) / 1/2 (Exhibit of Life Insurance, Col. 4, Lines 1 & 21)] x 100.0	6.5	5.8	6.5	7.8	8.6
65.						
66.	A & H cost containment percent (Schedule H, Pt. 1, Line 4, Col. 2)					
67.	A & H expense percent excluding cost containment expenses (Schedule H, Pt. 1, Line 10, Col. 2)					
	A & H Claim Reserve Adequacy					
68.	Incurred losses on prior years' claims - group health (Schedule H, Part 3, Line 3.1 Col. 2)					
69.	Prior years' claim liability and reserve - group health (Schedule H, Part 3, Line 3.2 Col. 2)					
70.	Incurred losses on prior years' claims-health other than group (Schedule H, Part 3, Line 3.1 Col. 1 less Col. 2)					
71.	Prior years' claim liability and reserve-health other than group (Schedule H, Part 3, Line 3.2 Col. 1 less Col. 2)					
	Net Gains From Operations After Federal Income Taxes by Lines of Business (Page 6, Line 33)					
72.	Industrial life (Col. 2)					
73.	Ordinary - life (Col. 3)					
74.	Ordinary - individual annuities (Col. 4)					
75.	Ordinary-supplementary contracts (Col. 5)					
76.	Credit life (Col. 6)					
77.	Group life (Col. 7)					
78. 70	Group annuities (Col. 8)					
79. 80.	A & H-group (Gol. 9) A & H-credit (Col. 10)					
81.	A & H-credit (Col. 10)					
82.	Aggregate of all other lines of business (Col. 12)					
83.	Total (Col. 1)	20,234,783	20,692,555	15,640,719	22,353,827	20,309,238
NOTE:	If a party to a merger, have the two most recent years	of this exhibit been rest	tated due to a morgar in	compliance with the dis	colocuro	



DIRECT BUSINESS IN THE STATE OF Grand Total

DURING THE YEAR 2016

NAIC	Group Code 0435	LI	FE INSURANCE		NAIC Company Code 70416		
	DIRECT PREMIUMS	1	2 Credit Life (Group	3	4	5	
	AND ANNUITY CONSIDERATIONS	Ordinary	and Individual)	Group	Industrial	Total	
1.		37,052,930		,		37,086,857	
2.		21,760				21,760	
3.	Deposit-type contract funds	I I	XXX		XXX		
4. 5.	Other considerations	07.074.000					
Э.	DIRECT DIVIDENDS TO POLICYHOLDERS	37,074,690		33,927		37, 108, 61	
l ifo ir	nsurance:						
6.1							
6.3	Applied to provide paid-up additions or shorten the endowment or premium-paying period						
6.4							
6.5	=						
Annui							
7.1	Paid in cash or left on deposit						
7.2	Applied to provide paid-up annuities						
7.3	Other						
7.4	Totals (Sum of Lines 7.1 to 7.3)						
8.	Grand Totals (Lines 6.5 plus 7.4)						
	DIRECT CLAIMS AND BENEFITS PAID						
9.	Death benefits	27,416,716		38,318,416		65 , 735 , 132	
10.							
11.	Annuity benefits	3,111,803				3,111,803	
12.	Surrender values and withdrawals for life contracts	48,663,593		725,675		49,389,268	
13.							
		340,868				340,86	
15.	Totals	79,532,980		39,044,091		118,577,07	
	DETAILS OF WRITE-INS						
1301.	·						
1302.	·						
1303.	·						
1399.	. Totals (Lines 1301 thru 1303 plus 1398) (Line 13 above)						

				Credit Life						
		Ordinary	(Group	and Individual)		Group	Industrial		Total	
DIRECT DEATH	1	2	3	4	5	6	7	8	9	10
BENEFITS AND			No. of							
MATURED			Ind.Pols.							
ENDOWMENTS			& Gr.		No. of					
INCURRED	No.	Amount	Certifs.	Amount	Certifs.	Amount	No.	Amount	No.	Amount
16. Unpaid December 31, prior year	33	3.751.998			9	7.443.968			42	11,195,966
17. Incurred during current year	297	31 896 093			49	34,458,537			346	66,354,630
Settled during current year:										
18.1 By payment in full	296	27,757,583			54	38,318,416			350	66,075,999
18.2 By payment on compromised claims										
18.3 Totals paid	296	27,757,583			54	38,318,416			350	66,075,999
18.4 Reduction by compromise										
18.5 Amount rejected										
18.6 Total settlements	296	27,757,583			54	38,318,416			350	66,075,999
19. Unpaid Dec. 31, current year (16+17-18.6)	34	7,890,509			4	3,584,089			38	11,474,597
•					No. of					
POLICY EXHIBIT					Policies					
20. In force December 31, prior	00 770	F COO 140 000			04	0 000 444 400			00 700	10 040 004 545
year21. Issued during year	29,778	5,688,143,030		(a)	21	6,952,141,485				12,640,284,515
		2,237,485								2,237,485
22. Other changes to in force (Net)	(1.657)	(393 525 810)			(6)	(12 607 092)			(1.663)	(406, 132, 902)
23. In force December 31 of	(1,001)	(000,020,010)							(1,000)	
current year	28,121	5,296,854,705		(a)	15	6,939,534,393			28,136	12,236,389,098

(a) Includes Individual Credit Life Insurance prior year \$, current year \$ Includes Group Credit Life Insurance Loans less than or equal to 60 months at issue, prior year \$, current year \$ Loans greater than 60 months at issue BUT NOT GREATER THAN 120 MONTHS, prior year \$, current year \$

	A	ACCIDENT AND	HEALTH INSUF	RANCE		
		1	2	3	4	5
				Dividends Paid Or		
			Direct Premiums	Credited On Direct		Direct Losses
		Direct Premiums	Earned	Business	Direct Losses Paid	Incurred
Group Policie	es (b)					
	loyees Health Benefits Plan					
	o and Individual)					
24.3 Collectively r	enewable policies (b)					
24.4 Medicare Titl	e XVIII exempt from state taxes or fees					
Other Individ	ual Policies:					
25.1 Non-cancela	ble (b)					
	renewable (b)					
	ole for stated reasons only (b)					
	nt only					
	of Lines 25.1 to 25.5)					
,	24 + 24 1 + 24 2 + 24 2 + 24 4 + 25 6)			1		

EXHIBIT OF LIFE INSURANCE

		EXHIBIT OF LIFE INSURANCE										
		Indu	ıstrial		inary	Credit Life (Grou				Group		10
		1	2	3	4	5 Number of Individual Policies and Group	6	7	Number of	8	9	Total
		Number of Policies	Amount of Insurance (a)	Number of Policies	Amount of Insurance (a)	Certificates	Amount of Insurance (a)	Policies			Amount of Insurance (a)	
1.	In force end of prior year			29,778	5,688,143				21	8,681	6,952,141	12,640,284
2.	Issued during year				2,237							2,237
3.	Reinsurance assumed											
4.	Revived during year			3	898							898
5.	Increased during year (net)			2			L				22,399	22,399
6.	Subtotals, Lines 2 to 5			5	3, 135						22,399	25,535
7.	Additions by dividends during year	XXX		XXX		XXX		XXX		XXX		
8.	Aggregate write-ins for increases											
9.	Totals (Lines 1 and 6 to 8)			29,783	5,691,278				21	8,681	6,974,540	12,665,819
	Deductions during year:			,	, ,					,	, ,	, ,
10.	Death			147	30,121			XXX		49	34,456	64,578
11.	Maturity				,			XXX			, ,	, .
12.	Disability							XXX				
13.	Expiry			2	53							53
14.	Surrender			1, 105	250,743				6	11	550	251,293
15.	Lapse			406	103,942							103,942
16.	Conversion							XXX		XXX	XXX	
17.	Decreased (net)			2	9,565							9,565
18.	Reinsurance				, , , , , ,							, , , , , ,
19.	Aggregate write-ins for decreases											
20.	Totals (Lines 10 to 19)			1,662	394,424				6	60	35,006	429,430
21.	In force end of year (Line 9 minus Line 20)			28,121	5,296,855				15	8.621	6,939,534	12.236.389
22.	Reinsurance ceded end of year	XXX		XXX	4,694,500	XXX		XXX		XXX	2,272,971	6,967,471
	Line 21 minus Line 22	XXX	-	XXX	602,355	XXX	(b)	XXX		XXX	4,666,563	5,268,918
	DETAILS OF WRITE-INS	7000		7001	552,555	7001	(5)	7001		7000	.,000,000	0,200,0.0
0801.												
0802.												
0803.												
0898.	Summary of remaining write-ins for Line 8 from overflow page.											
0899.	TOTALS (Lines 0801 thru 0803 plus 0898) (Line 8 above)											
1901.	45010)											
1902.												
1903.					<u></u>							
1998.	Summary of remaining write-ins for Line 19 from overflow page.	v										
1999.	TOTALS (Lines 1901 thru 1903 plus 1998) (Line 19 above)											

(a) Amounts	of life insurance in this e	xhibit shall be s	hown in thousands (omit 000)
(b) Group \$; Individual \$	

EXHIBIT OF LIFE INSURANCE (Continued)

ADDITIONAL INFORMATION ON INSURANCE IN FORCE END OF YEAR

	7.001110101010110110110110110110110110110							
		Indu	strial	Ordinary				
		1	1 2		4			
			Amount of Insurance		Amount of Insurance			
		Number of Policies	(a)	Number of Policies	(a)			
24.	Additions by dividends	XXX		XXX				
25.	Other paid-up insurance			6	7,737			
26.	Debit ordinary insurance	XXX	XXX					

ADDITIONAL INFORMATION ON ORDINARY INSURANCE

			uring Year in Line 2)		nd of Year in Line 21)
		1	2	3	4
			Amount of Insurance		Amount of Insurance
	Term Insurance Excluding Extended Term Insurance	Number of Policies	(a)	Number of Policies	(a)
27.	Term policies - decreasing				
28.	Term policies - other				
29.	Other term insurance - decreasing			XXX	
30.	Other term insurance	XXX		XXX	600
31.	Totals (Lines 27 to 30)				600
	Reconciliation to Lines 2 and 21:				
32.	Term additions	XXX		XXX	
33.	Totals, extended term insurance	XXX	XXX	65	3,509
34.	Totals, whole life and endowment		2,237	28,056	5,292,746
35.	Totals (Lines 31 to 34)		2,237	28,121	5,296,855

CLASSIFICATION OF AMOUNT OF INSURANCE (a) BY PARTICIPATING STATUS

		Issued Du (Included	ıring Year in Line 2)	In Force End of Year (Included in Line 21)		
		1	1 2		4	
		Non-Participating	Participating	Non-Participating	Participating	
36	Industrial					
37.	Ordinary	2,237		5,296,855		
38.	Credit Life (Group and Individual)					
39.	Group			6,939,534		
40.	Totals (Lines 36 to 39)	2,237		12,236,389		

ADDITIONAL INFORMATION ON CREDIT LIFE AND GROUP INSURANCE

	ADDITIONAL INFORMATION ON CREDIT LIFE AND GROUP INSURANCE										
			Credi	it Life	Group						
			1	2	3	4					
			Number of Individual								
			Policie and Gro	surance		Amount of Insurance					
			Contes	(a)	Number of Certificates	(a)					
41.	Amount of insurance included in Line 2 ceded to expendition in the second insurance included in Line 2 ceded to expendition in the second in t				XXX						
42.	Number in force end of year if the number under a ret of as is nunter on a pro-rata basis	∍d		XXX		YYY					
43.	Federal Employees' Group Life Insurance include in Line										
44.	Servicemen's Group Life Insurance included in Line 21										
45.	Group Permanent Insurance included in Line 21										

ADDITIONAL ACCIDENTAL DEATH BENEFITS

46. Amount of additional accidental death benefits in force end of year under ordinary policies (a)	49,281
---	--------

BASIS OF CALCULATION OF ORDINARY TERM INSURANCE

47. State basis of calculation of (47.1) decreasing ter wife and children under Family, Parent and Chil 47.1	cier	d riders	ly In	e, Mor ge I ove.	tc., policies and riders and of (47.2) term insurance on

POLICIES WITH DISABILITY PROVISIONS

		Industrial		Industrial Ordinary		Credit		Group	
		1 2		3 4		5	5 6		8
								Number of	
		Number of	Amount of Insurance	Number of	Amount of Insurance	Number of	Amount of Insurance	Certifi-	Amount of Insurance
	Disability Provisions	Policies	(a)	Policies	(a)	Policies	(a)	cates	(a)
48.	Waiver of Premium			12,761	2, 137, 065				
	Disability Income								
50.	Extended Benefits			XXX	XXX				
51.	Other								
52.	Total		(b)	12,761	(b) 2,137,065		(b)		(b)

⁽a) Amounts of life insurance in this exhibit shall be shown in thousands (omit 000)

⁽b) See Paragraph 9 of the Annual Audited Financial Reports in the General section of the annual statement instructions

EXHIBIT OF NUMBER OF POLICIES, CONTRACTS, CERTIFICATES, INCOME PAYABLE AND ACCOUNT VALUES IN FORCE FOR SUPPLEMENTARY CONTRACTS, ANNUITIES, ACCIDENT & HEALTH AND OTHER POLICIES

	SUPPLEMEN	NTARY CONTRACTS				
		Ordi	nary	Group		
		1	2	3	4	
		Involving Life Contingencies	Not Involving Life Contingencies	Involving Life Contingencies	Not Involving Life Contingencies	
1.	In force end of prior year	11	75			
2.	Issued during year		27			
3.	Reinsurance assumed					
4.	Increased during year (net)					
5.	Total (Lines 1 to 4)		102			
	Deductions during year:					
6.	Decreased (net)	1	11			
7.	Reinsurance ceded	1				
8.	Totals (Lines 6 and 7)	. 1	11			
9.	In force end of year		91			
10.	Amount on deposit		(a)11,548,399		(a)	
11.	Income now payable		17			
12.	Amount of income payable	(a) 67,954	(a) 258,950	(a)	(a)	

ANNUITIES

		Ordi	inary	Gr	oup
		1	2	3	4
		Immediate	Deferred	Contracts	Certificates
1.	In force end of prior year		942		
2.	Issued during year				
3.	Reinsurance assumed				
4.	Increased during year (net)				
5.	Totals (Lines 1 to 4)		942		
	Deductions during year:				
6.	Decreased (net)		89		
7.	Reinsurance ceded	-			
8.	Totals (Lines 6 and 7)		89		
9.	In force end of year		853		
	Income now payable:				
10.	Amount of income payable	(a)	XXX	XXX	(a)
	Deferred fully paid:				
11.	Account balance	XXX	(a)	XXX	(a)
	Deferred not fully paid:				
12.	Account balance	XXX	(a) 41,980,252	XXX	(a)

ACCIDENT AND HEALTH INSURANCE

		Gro	oup	Cro	edit	Of	her
		1	2	3	3 4		6
		Certificates	Premiums in Force	Policies	Premiums in Force	Policies	Premiums in Force
1.	In force end of prior year						
2.	Issued during year						
3.	Reinsurance assumed						
4.	Increased during year (net)		XXX		XXX		XXX
5.	Totals (Lines 1 to 4)		_XXX		XXX		XXX
	Deductions during year:						
6.	Conversions		XXX		XXX	XXX	XXX
7.	Decreased (net)		(X		(XXX
8.	Reinsurance ceded		(XX		XXX		XXX
9.	Totals (Lines 6 to 8)		(XX)				XXX
10.	In force end of year		(a)		(a)		(a)

DEPOSIT FUNDS AND DIVIDEND ACCUMULATIONS

	DEPOSIT FUNDS AND DIVIDEND ACCUMULATIONS									
		1	2							
	· ·		Dividend							
	l l	Deposit Funds	Accumulations							
	l l	Contracts	Contracts							
1.	In force end of prior year									
2.	Issued during year									
3.	Reinsurance assumed									
4.	Increased during year (net)	•								
5.	Increased during year (net)									
	Deductions During Year:									
6.	Decreased (net)									
	Reinsurance ceded	-								
8.	Totals (Lines 6 and 7)									
9.	In force end of year									
10.	Amount of account balance	(a)	(a)							

⁽a) See Paragraph 9 of the Annual Audited Financial Reports in the General section of the annual statement instructions.

FORM FOR CALCULATING THE INTEREST MAINTENANCE RESERVE

INTEREST MAINTENANCE RESERVE

		1 Amount
1.	Reserve as of December 31, Prior Year	365,578
2.	Current year's realized pre-tax capital gains/(losses) of \$	112,056
3.	Adjustment for current year's liability gains/(losses) released from the reserve	
4.	Balance before reduction for amount transferred to Summary of Operations (Line 1 + Line 2 + Line 3)	477,634
5.	Current year's amortization released to Summary of Operations (Amortization, Line 1, Column 4)	188,040
6.	Reserve as of December 31, current year (Line 4 minus Line 5)	289,594

AMORTIZATION

		1	2	3	4
	Year of Amortization	Reserve as of December 31, Prior Year	Current Year's Realized Capital Gains/(Losses) Transferred into the Reserve Net of Taxes	Adjustment for Current Year's Liability Gains/(Losses) Released From the Reserve	
1.	2016	175,872	12,168		188,040
2.	2017	110,704	25,416		136 , 120
3.	2018	67,287	23,444		90,731
4.	2019	32,609	18,293		50,902
5.	2020	10 , 174	13,023		23, 197
6.	2021	1,641	7,558		9, 199
7.	2022	(117)	4,252		4 , 135
8.	2023	(290)	3,402		3,112
9.	2024	(204)	2,480		2,276
10.	2025	(1,635)	1,524		(111)
11.	2026	(2,858)	496		(2,362)
12.	2027	(3,787)			(3,787)
13.	2028	(4,692)			(4,692)
14.	2029	(5,292)			(5,292)
15.	2030	(5, 191)			(5, 191)
16.	2031	(4, 135)			(4, 135)
17.	2032	(2,922)			(2,922)
18.	2033	(1,640)			(1,640)
19.	2034	(250)			(250)
20.	2035	355			355
21.	2036	181			181
22.	2037				59
23.	2038	(21)			(21)
24.	2039	(144)			(144)
25.	2040				(108)
26.	2041	(1)			(1)
27.	2042	(11)			(11)
28.	2043	(6)			(6)
29.	2044				
30.	2045				
31.	2046 and Later				
32.	Total (Lines 1 to 31)	365,578	112,056		477,634

ASSET VALUATION RESERVE

		Default Component			Equity Component		
	1	2	3	4	5	6	7
	Other Than Mortgage Loans	Mortgage Loans	Total (Cols. 1 + 2)	Common Stock	Real Estate and Other Invested Assets	Total (Cols. 4 + 5)	Total Amount (Cols. 3 + 6)
Reserve as of December 31, prior year	4,641,189	25,121	4,666,310				4,666,310
Realized capital gains/(losses) net of taxes - General Account	(35,249)		(35,249)				(35,249)
Realized capital gains/(losses) net of taxes - Separate Accounts	89,562		89,562				89,562
Unrealized capital gains/(losses) net of deferred taxes - General Account	(22,987)		(22,987)				(22,987)
Unrealized capital gains/(losses) net of deferred taxes - Separate Accounts							
Capital gains credited/(losses charged) to contract benefits, payments or reserves							
7. Basic contribution	881,383	6,325	887,708				887,708
8. Accumulated balances (Lines 1 through 5 - 6 + 7)	5,553,897	31,446	5,585,343				5,585,343
9. Maximum reserve	4,976,471	21,024	4,997,495				4,997,495
10. Reserve objective	3,534,003	12,722	3,546,724				3,546,724
11. 20% of (Line 10 - Line 8)	(403,979)	(3,745)	(407,724)				(407,724)
12. Balance before transfers (Lines 8 + 11)	5, 149, 918	27,702	5, 177,620				5,177,620
13. Transfers							
14. Voluntary contribution							
15. Adjustment down to maximum/up to zero	(173,446)	(6,678)	(180,124)				(180,124)
16. Reserve as of December 31, current year (Lines 12 + 13 + 14 + 15)	4,976,472	21,024	4,997,496				4,997,496

ASSET VALUATION RESERVE BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS DEFAULT COMPONENT

			1	2	3	4	Basic (Contribution	Resen	ve Objective	Maximu	m Reserve
			'	_	J	Balance for	5	6	7	8	9	10
Line	NAIC			Reclassify		AVR Reserve	•	•	-	•	•	
Num-	Desig-		Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber	nation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
		LONG-TERM BONDS										
1.		Exempt Obligations	39,357,823	XXX	XXX	39,357,823	0.000		0.000		0.000	
2.	1	Highest Quality	183,849,371	XXX	XXX	183,849,371	0.004	73,540	0.0023	422,854	0.0030	551,548
3.	2	High Quality	80,468,878	XXX	XXX	80,468,878	0.0019	152,891	0.0058	466,719	0.0090	724,220
4.	3	Medium Quality	3,934,619	XXX	XXX	3,934,619	0.0093	36,592	0.0230	90,496	0.0340	133,777
5.	4	Low Quality	1,296,948	XXX	XXX	1,296,948	0.0213	27,625	0.0530	68,738	0.0750	97,271
6.	5	Lower Quality	782,226	XXX	XXX	782,226	0.0432	33,792	0.1100	86,045	0.1700	132,978
7.	6	In or Near Default	526,940	XXX	XXX	526,940	0.000		0.2000	105,388	0.2000	105,388
8.		Total Unrated Multi-class Securities Acquired by Conversion		XXX	XXX		XXX		XXX		XXX	
9.		Total Long-Term Bonds (Sum of Lines 1 through 8)	310,216,805	XXX	XXX	310,216,805	XXX	324,440	XXX	1,240,240	XXX	1,745,183
		PREFERRED STOCK										
10.	1	Highest Quality		XXX	XXX		0.0004		0.0023		0.0030	
11.	2	High Quality		XXX	XXX		0.0019		0.0058		0.0090	
12.	3	Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
13.	4	Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
14.	5	Lower Quality		XXX	XXX		0.0432		0 . 1100		0.1700	
15.	6	In or Near Default		XXX	XXX		0.000		0.2000		0.2000	
16.		Affiliated Life with AVR		XXX	XXX		0.0000		0.0000		0.0000	
17.		Total Preferred Stocks (Sum of Lines 10 through 16)		XXX	XXX		XXX		XXX		XXX	
		SHORT - TERM BONDS										
18.		Exempt Obligations		XXX	XXX		0.000		0.000		0.000	
19.	1	Highest Quality		XXX	XXX		0.0004		0.0023		0.0030	
20.	2	High Quality		XXX	XXX		0.0019		0.0058		0.0090	
21.	3	Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
22.	4	Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
23.	5	Lower Quality		XXX	XXX		0.0432		0.1100		0.1700	
24.	6	In or Near Default		XXX	XXX		0.0000		0.2000		0.2000	
25.		Total Short - Term Bonds (Sum of Lines 18 through 24)		XXX	XXX		XXX		XXX		XXX	
		DERIVATIVE INSTRUMENTS										
26.		Exchange Traded		XXX	XXX		0.0004		0.0023		0.0030	
27.	1	Highest Quality		XXX	XXX		0.0004		0.0023		0.0030	
28.	2	High Quality		XXX	XXX		0.0019		0.0058		0.0090	
29.	3	Medium Quality		XXX	XXX		0.0093		0.0230		0.0340	
30.	4	Low Quality		XXX	XXX		0.0213		0.0530		0.0750	
31.	5	Lower Quality		XXX	XXX		0.0432		0.1100		0 . 1700	
32.	6	In or Near Default		XXX	XXX		0.0000		0.2000		0.2000	
33.		Total Derivative Instruments		XXX	XXX		XXX		XXX		XXX	
34.		Total (Lines 9 + 17 + 25 + 33)	310,216,805	XXX	XXX	310,216,805	XXX	324,440	XXX	1,240,240	XXX	1,745,183

ASSET VALUATION RESERVE (Continued) BASIC CONTRIBUTION, RESERVE OBJECTIVE AND MAXIMUM RESERVE CALCULATIONS DEFAULT COMPONENT

			1	2	3	OWN ONE		ontribution	Paganya	Objective	Maximum Reserve	
			l	2	3	Balance for	5 Basic Co	onthornori 6	7 Reserve	Objective	9 Maximur	10
Line	NAIC			Reclassify		AVR Reserve	3	O	,	0	3	10
Num-	Desia-		Book/Adjusted	Related Party	Add Third Party	Calculations		Amount		Amount		Amount
ber	nation	Description	Carrying Value	Encumbrances	Encumbrances	(Cols. 1 + 2 + 3)	Factor	(Cols.4 x 5)	Factor	(Cols. 4 x 7)	Factor	(Cols. 4 x 9)
		MORTGAGE LOANS				,		,				
		In Good Standing:										
35.		Farm Mortgages - CM1 - Highest Quality			XXX		0.0010		0.0050		0.0065	
36.		Farm Mortgages - CM2 - High Quality			XXX		0.0035		0.0100		0.0130	
37.		Farm Mortgages - CM3 - Medium Quality			XXX		0.0060		0.0175		0.0225	
38.		Farm Mortgages - CM4 - Low Medium Quality			XXX		0.0105		0.0300		0.0375	
39.		Farm Mortgages - CM5 - Low Quality			XXX		0.0160		0.0425		0.0550	
40.		Residential Mortgages - Insured or Guaranteed	3,828,103		XXX	3,828,103	0.0003	1,148	0.0006	2,297	0.0010	3,828
41.		Residential Mortgages - All Other	178,985		XXX	178,985	0.0013	233	0.0030	537	0.0040	716
42.		Commercial Mortgages - Insured or Guaranteed	,		XXX	, , ,	0.0003		0.0006		0.0010	
43.		Commercial Mortgages - All Other - CM1 - Highest Quality			XXX		0.0010		0.0050		0.0065	
44.		Commercial Mortgages - All Other - CM2 - High Quality			XXX		0.0035		0.0100		0.0130	
45.		Commercial Mortgages - All Other - CM3 - Medium Quality			XXX		0.0060		0.0175		0.0225	
46.		Commercial Mortgages - All Other - CM4 - Low Medium										
		Quality			XXX		0.0105		0.0300		0.0375	
47.		Commercial Mortgages - All Other - CM5 - Low Quality			XXX		0.0160		0.0425		0.0550	
		Overdue, Not in Process:										
48.		Farm Mortgages			XXX		0.0420		0.0760		0.1200	
49.		Residential Mortgages - Insured or Guaranteed			XXX		0.0005		0.0012		0.0020	
50.		Residential Mortgages - All Other			XXX		0.0025		0.0058		0.0090	
51.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0005		0.0012		0.0020	
52.		Commercial Mortgages - All Other			XXX		0.0420		0.0760		0 . 1200	
		In Process of Foreclosure:										
53.		Farm Mortgages			XXX		0.0000		0.1700		0.1700	
54.		Residential Mortgages - Insured or Guaranteed			XXX		0.000		0.0040		0.0040	
55.		Residential Mortgages - All Other			XXX		0.0000		0.0130		0.0130	
56.		Commercial Mortgages - Insured or Guaranteed			XXX		0.0000		0.0040		0.0040	
57.		Commercial Mortgages - All Other			XXX		0.0000		0.1700		0.1700	
58.		Total Schedule B Mortgages (Sum of Lines 35 through 57)	4,007,088		XXX	4,007,088	XXX	1,381	XXX	2,834	XXX	4,544
59.		Schedule DA Mortgages			XXX		0.0030		0.0100		0.0130	
60.		Total Mortgage Loans on Real Estate (Lines 58 + 59)	4,007,088		XXX	4,007,088	XXX	1,381	XXX	2,834	XXX	4,544

Asset Valuation Reserve - Equity Component

NONE

Asset Valuation Reserve Replications (Synthetic) Assets

NONE

Schedule F - Claims

NONE

Schedule H - Part 1 - Analysis of Underwriting Operations

NONE

Schedule H - Part 2 - Reserves and Liabilities

NONE

Schedule H - Part 3 - Prior Year's Claim Reserves and Liabilities

NONE

Schedule H - Part 4 - Reinsurance

NONE

Schedule H - Part 5 - Health Claims

NONE

Schedule S - Part 1 - Section 1

NONE

Schedule S - Part 1 - Section 2

NONE

SCHEDULE S - PART 2

Reinsurance Recoverable on Paid and Unpaid Losses Listed by Reinsuring Company as of December 31, Current Year

1	2	3	4	5	6	7
NAIC	_				•	
Company	ID	Effective		Domiciliary		
Code	Number	Date	Name of Company	Jurisdiction	Paid Losses	Unpaid Losses
65935	04-1590850		904,674			
65935	04-1590850	01/01/2000	MA	1,806,991	3,584,089	
0299999. Li	ife and Annuit	1,806,991	4,488,763			
0399999. T	otal Life and A	1,806,991	4,488,763			
0699999. T	otal Life and A	Annuity - Non-L	I.S. Affiliates			
		Annuity - Affiliat			1,806,991	4,488,763
86258	13-2572994	02/08/1999	General Re Life Corp. (CO81)	CT	134 , 455	589,034
65676	35-0472300	02/08/1999	Lincoln National Life Ins. Co. (LN81) Munich American Reassurance Co (MU81) Munich American Reassurance Co (MU82)	IN	204 , 127	867,496
66346	58-0828824	02/08/1999	Munich American Reassurance Co (MU81)	GA	78,723	1,409,765
66346	58-0828824	01/01/1999	Munich American Reassurance Co (MU82)	GA	142,012	258, 140
93572	43-1235868	01/01/1999	RGA Reinsurance Co. (AZ82)	MO	329,281	299,737
			RGA Reinsurance Co. (GA81)	MO	216,092	867,496
0899999. L	ife and Annuit	y - U.S. Non-A	filiates		1, 104, 690	4,291,668
		Annuity - Non-A	ffiliates		1,104,690	4,291,668
	otal Life and A				2,911,681	8,780,431
1499999. T	otal Accident	and Health - U.	S. Affiliates			
1799999. T	otal Accident	and Health - N	on-U.S. Affiliates			
1899999. T	otal Accident	and Health - Af	filiates			
2199999. T	otal Accident	and Health - N	on-Affiliates			
2299999. T	otal Accident	and Health				
2399999. T	otal U.S. (Sun	n of 0399999, (0899999, 1499999 and 1999999)		2,911,681	8,780,431
2499999. T	otal Non-U.S.	(Sum of 06999	999, 0999999, 1799999 and 2099999)			
9999999 To	otals - Life, An	nuity and Accid	dent and Health		2,911,681	8,780,431

SCHEDULE S - PART 3 - SECTION 1

Reinsurance Ceded Life Insurance, Annuities, Deposit Funds and Other Liabilities Without Life or Disability Contingencies, and Related Benefits Listed by Reinsuring Company as of December 31, Current Year

		Reinst	rance Ceded Life Insurance, Annuities, Deposit Funds and	Other Lia	abilities Without	Life or Disabil	lity Contingencies,	, and Related Ben	etits Listed by F	leinsuring Compa	any as of Decem	ber 31, Current	Year	
1	2	3	4	5	6	7	8	Reserve Cre	edit Taken	11	Outstanding S	Surplus Relief	14	15
				Domi-				9	10		12	13		
NAIC				ciliary	Type of	Type of			-				Modified	Funds Withheld
Company	ID	Effective		Juris-	Reinsurance	Business	Amount in Force						Coinsurance	Under
Code	Number	Date	Name of Company	diction	Ceded	Ceded	at End of Year	Current Year	Prior Year	Premiums	Current Year	Prior Year	Reserve	Coinsurance
65935			Massachusetts Mutual Life Insurance Co.	MA	YRT/I	ni Ocaca	587.676.526		6.228.044	7.057.869	Odifont Todi	1 1101 1041	11000110	Comoditation
65935			Massachusetts Mutual Life Insurance Co.	MA	OTH/I	01				230.897				
			ized U.S. Affiliates - Other	IVIA	١/١١١٧	UL	587.676.526	F 000 04F	0.000.044	7,288,766				
								5,960,645	6,228,044					
			authorized U.S. Affiliates				587,676,526	5,960,645	6,228,044	7,288,766				
			authorized Non-U.S. Affiliates											
0799999.			authorized Affiliates				587,676,526	5,960,645	6,228,044	7,288,766				
80659			Canada Life Assurance Co. (CR57)	MI	YRT/G	OL	734,304	2,372	2,235	1,812				
68276		_01/01/1999	Employers Reassurance Corp. (ER82)	KS	YRT/I	0L				7				
86258	13-2572994	02/08/1999	General Re Life Corp. (CO81)	CT	YRT/I	0L	277,973,085	1,991,931	1,989,879	1,217,074				
65676	35-0472300	01/05/1983	Lincoln National Life Ins. Co. (LN16)	IN	YRT/G	0L		10, 122	9,538	8,413				
65676	35-0472300	02/08/1999	Lincoln National Life Ins. Co. (LN81)	IN	YRT/I	0L	421,967,149	3,023,909	3,022,421	1,822,918				
66346	58-0828824	05/01/1994	Munich American Reassurance (CA48)	GA	YRT/G	OL	210,310	679	640	474				
66346	58-0828824	02/08/1999	Munich American Reassurance (MU81)	GA	YRT/I	0L	702,443,617	5,033,778	5,028,495	2,823,230				
66346	58-0828824	01/01/1999	Munich American Reassurance (MU82)	GA	YRT/I	0L	220,845,454	1,823,419	1,880,727	1,146,532				
93572	43-1235868	05/01/1994	RGA Reinsurance Co. (AZ51)	MO.	YRT/G	0L	819,365	2,647	2,494	1,809				
93572	43-1235868	01/01/1999	RGA Reinsurance Co. (AZ82)	MO	YRT/I	0L	265,399,861	2,190,709	2,259,664	1,753,230				
93572	43-1235868	09/14/1981	RGA Reinsurance Co. (GA11)	MO	YRT/G	01			2, 186	(1,655)				
93572	43-1235868		RGA Reinsurance Co. (GA81)	MO	YRT/I	01	421,967,149	3,023,909	3,022,421	1,795,558				
68713			Security Life of Denver Ins. Co. (SD46)	CO.	YRT/G	OL.	1,901,987	6, 143	5,789	4, 118				
82627			Swiss Re Life & Health America (SR16V)	MO	MCO/I	OL.	1,796,226,724	, 140	,700	122,016,560			122,016,560	
82627			Swiss Re Life & Health America (SR59)	MO	YRT/G	01	4,092,487	13,219	12,457	12,405			122,010,000	
			ized U.S. Non-Affiliates	IWO	JIII/ U	UL	4,117,715,218	17,122,837	17,238,946	132,602,485			122,016,560	
			authorized Non-Affiliates				4,117,715,218	17,122,837	17,238,946	132,602,485			122,016,560	
	Total General						4,705,391,744	23,083,482	23,466,990	139,891,251			122,016,560	
			Inauthorized U.S. Affiliates											
			Inauthorized Non-U.S. Affiliates											
1899999.	Total General	I Account - U	Inauthorized Affiliates											
2199999.	Total General	Account - U	Inauthorized Non-Affiliates											
2299999.	Total General	Account Un	authorized											
			Certified U.S. Affiliates											
			Certified Non-U.S. Affiliates											
			Certified Affiliates											
			Certified Non-Affiliates				+							
							1							
	Total General													
			thorized, Unauthorized and Certified		1		4,705,391,744	23,083,482	23,466,990	139,891,251			122,016,560	
				MA	MCO/G	0L	2,262,078,867			1, 135			1,076,615,887	
			orized U.S. Affiliates - Other				2,262,078,867			1, 135			1,076,615,887	
3799999.	Total Separat	e Accounts -	- Authorized U.S. Affiliates				2,262,078,867			1, 135			1,076,615,887	
4099999.	Total Separat	e Accounts -	- Authorized Non-U.S. Affiliates											
			- Authorized Affiliates				2,262,078,867			1, 135			1,076,615,887	
			Swiss Re Life & Health America (SR16V)	MO	MCO/I	0L	, , , ,, ,,			,			677,664,644	
			orized U.S. Non-Affiliates	1		1							677,664,644	
			- Authorized Non-Affiliates										677.664.644	
							0.000.070.007			1 105			, ,	
	Total Separat						2,262,078,867			1,135			1,754,280,531	
			- Unauthorized U.S. Affiliates				1						ļ	
			- Unauthorized Non-U.S. Affiliates				1						ļ	
			- Unauthorized Affiliates											
5599999.	Total Separat	e Accounts -	- Unauthorized Non-Affiliates				<u> </u>							
5699999.	Total Separat	e Accounts l	Unauthorized		<u></u>									
5999999.	Total Separat	e Accounts -	- Certified U.S. Affiliates											
			- Certified Non-U.S. Affiliates				İ	İ						
			- Certified Affiliates											
			- Certified Non-Affiliates				+						 	
							+						1	1
o/99999.	Total Separat	LE ACCOUNTS (Certilled				1						1	1

SCHEDULE S - PART 3 - SECTION 1

Reinsurance Ceded Life Insurance, Annuities, Deposit Funds and Other Liabilities Without Life or Disability Contingencies, and Related Benefits Listed by Reinsuring Company as of December 31, Current Year

		i icii isui	rance Geded Life Insurance, Armulties, Deposit i unos and	Other Ele	without	LIIC OI DISABII	ity Contingencies,	and ricialed Den	ichta Liated by Ti	icinsuming compa	ing as of Decem	iber or, ourient	. i cai	
1	2	3	4	5	6	7	8	Reserve Credit Taken		11	Outstanding Surplus Relief		14	15
				Domi-				9	10		12	13		
NAIC				ciliary	Type of	Type of							Modified	Funds Withheld
Company	ID	Effective		Juris-	Reinsurance	Business	Amount in Force						Coinsurance	Under
Code	Number	Date	Name of Company	diction	Ceded	Ceded	at End of Year	Current Year	Prior Year	Premiums	Current Year	Prior Year	Reserve	Coinsurance
6899999.	Total Separat	e Accounts A	uthorized, Unauthorized and Certified				2,262,078,867			1, 135			1,754,280,531	
6999999.	Total U.S. (Su	ım of 039999	9, 0899999, 1499999, 1999999, 2599999, 3099999, 3799999, 4299	999, 48999	99, 5399999, 599	19999 and								
	6499999)						6,967,470,611	23,083,482	23,466,990	139,892,386			1,876,297,091	
7099999.	709999. Total Non-U.S. (Sum of 0699999, 0999999, 1799999, 2099999, 3199999, 4399999, 5199999, 5499999, 6299999 and													
	659999)													
9999999 -	Totals			6,967,470,611	23,083,482	23,466,990	139,892,386			1,876,297,091				

Schedule S - Part 3 - Section 2

NONE

Schedule S - Part 4 **NONE**

Schedule S - Part 4 - Bank Footnote **NONE**

Schedule S - Part 5

NONE

Schedule S - Part 5 - Bank Footnote **NONE**

SCHEDULE S - PART 6

Five Year Exhibit of Reinsurance Ceded Business (000 OMITTED)

		1	OMITTED) 2	3	4	5
		2016	2015	2014	2013	2012
	A. OPERATIONS ITEMS					
1.	Premiums and annuity considerations for life and accident and health contracts	139,892	18,413	18,350	17,451	19,228
2.	Commissions and reinsurance expense allowances	61,255	5,632	5,523	5,397	5,254
3.	Contract claims	25 , 185	26,267	26,420	25 , 158	23,503
4.	Surrender benefits and withdrawals for life contracts					
5.	Dividends to policyholders					
6.	Reserve adjustments on reinsurance ceded	112,686	(15,069)	(12,815)	(10,107)	(8,328)
7.	Increase in aggregate reserve for life and accident and health contracts	(384)	41	(543)	(1,317)	(9, 171)
	B. BALANCE SHEET ITEMS					
8.	Premiums and annuity considerations for life and accident and health contracts deferred and uncollected	611	652	194	(480)	1,520
9.	Aggregate reserves for life and accident and health					
	contracts	23,083	23,467	23,426	23,969	25,286
10.	Liability for deposit-type contracts					
11.	Contract claims unpaid					5,060
12.	Amounts recoverable on reinsurance			7,225		5,259
13.	Experience rating refunds due or unpaid	1,564	1,572	2,028	2,757	2,516
14.	Policyholders' dividends (not included in Line 10)					
15.	Commissions and reinsurance expense allowances due	16,908	19,537	21,245	18,612	25,205
16.	Unauthorized reinsurance offset					
17.	Offset for reinsurance with Certified Reinsurers					
	C. UNAUTHORIZED REINSURANCE (DEPOSITS BY AND FUNDS WITHHELD FROM)					
18.	Funds deposited by and withheld from (F)					
19.	Letters of credit (L)					
20.	Trust agreements (T)					
21.	Other (O)					
	D. REINSURANCE WITH CERTIFIED REINSURERS (DEPOSITS BY AND FUNDS WITHHELD FROM)					
22.	Multiple Beneficiary Trust					
23.	Funds deposited by and withheld from (F)					
24.	Letters of credit (L)					
25.	Trust agreements (T)					
26.	Other (O)					

SCHEDULE S - PART 7

Restatement of Balance Sheet to Identify	Not Cradit for Cadad Baingurance
nestatement of balance sheet to identify	Net Credit for Ceded hellisurance

		As Reported (net of ceded)	2 Restatement Adjustments	3 Restated (gross of ceded)
	ASSETS (Page 2, Col. 3)			
1.	Cash and invested assets (Line 12)	472,063,292		472,063,292
2.	Reinsurance (Line 16)	21,383,440	(21,383,440)	
3.	Premiums and considerations (Line 15)	(2,079,380)	610,865	(1,468,515
4.	Net credit for ceded reinsurance	xxx	56,087,823	56,087,823
5.	All other admitted assets (balance)	10,868,286		10,868,286
6.	Total assets excluding Separate Accounts (Line 26)	502,235,638	35,315,249	537,550,887
7.	Separate Account assets (Line 27)	4,312,051,379		4,312,051,379
8.	Total assets (Line 28)	4,814,287,017	35,315,249	4,849,602,266
	LIABILITIES, CAPITAL AND SURPLUS (Page 3)			
9.	Contract reserves (Lines 1 and 2)	138,538,127	23,083,482	161,621,609
10.	Liability for deposit-type contracts (Line 3)	11,548,399		11,548,399
11.	Claim reserves (Line 4)	3,824,460	8,780,431	12,604,891
12.	Policyholder dividends/reserves (Lines 5 through 7)			
13.	Premium & annuity considerations received in advance (Line 8)	2,438		2,438
14.	Other contract liabilities (Line 9)	11,446,569	3,421,656	14,868,225
15.	Reinsurance in unauthorized companies (Line 24.02 minus inset amount)			
16.	Funds held under reinsurance treaties with unauthorized reinsurers (Line 24.03 minus inset amount)			
17.	Reinsurance with Certified Reinsurers (Line 24.02 inset amount)			
18.	Funds held under reinsurance treaties with Certified Reinsurers (Line 24.03 inset amount)			
19.	All other liabilities (balance)	48,581,206	29,680	48,610,886
20.	Total liabilities excluding Separate Accounts (Line 26)	213,941,199	35,315,249	249,256,448
21.	Separate Account liabilities (Line 27)	4,312,051,379		4,312,051,379
22.	Total liabilities (Line 28)	4,525,992,578	35,315,249	4,561,307,827
23.	Capital & surplus (Line 38)	288,294,439	XXX	288,294,439
24.	Total liabilities, capital & surplus (Line 39)	4,814,287,017	35,315,249	4,849,602,266
	NET CREDIT FOR CEDED REINSURANCE			
25.	Contract reserves	23,083,482		
26.	Claim reserves	8,780,431		
27.	Policyholder dividends/reserves			
28.	Premium & annuity considerations received in advance			
29.	Liability for deposit-type contracts			
30.	Other contract liabilities	3,421,656		
31.	Reinsurance ceded assets	21,383,440		
32.	Other ceded reinsurance recoverables			
33.	Total ceded reinsurance recoverables	56,669,009		
34.	Premiums and considerations	610,865		
35.	Reinsurance in unauthorized companies			
36.	Funds held under reinsurance treaties with unauthorized reinsurers			
37.	Reinsurance with Certified Reinsurers			
38.	Funds held under reinsurance treaties with Certified Reinsurers			
39.	Other ceded reinsurance payables/offsets	(00,000)		
40.	Total ceded reinsurance payable/offsets			
		221,123		

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS Allocated by States and Territories

Life Contracts Accident and Health Insurance Premiums, Including Policy, Membership Total Life Insurance Annuity Other Deposit-Type 2 through 5 Premiums213,208 States, Etc Active Status Considerations and Other Fees Considerations Contracts Alabama AL 2. Alaska ΑK 23.620 23 620 Arizona .933,338 933,338 ΑZ 4. Arkansas 70,860 70,860 California 4.381.306 4.381.306 CA 6. 7. Colorado СО 809,269 809,269 Connecticut СТ .665.582 665.582 DE District of Columbia 9. DC 157 953 157 953 10. Florida 363,807 2,363,807 FL 11 Georgia GΑ 695 516 695 516 12. 201,711 Hawaii 201,711 ΗΙ 13. Idaho 60,429 60,429 ID 14. Illinois Ш 1.369.433 1.369.433 Indiana 650,809 650.809 IN 16. lowa. IΑ 605.459 1.800 607.259 17. Kansas 391,214 391,214 KS 18. Kentucky ΚY 311 487 6,000 317 487 19. Louisiana 399.568 399.568 LA 20. Maine 185,884 185,884 21. Maryland MD 1.179.440 1.260 1.180.700 Massachusetts .968,517 .968,517 MΑ 23. Michigan МІ 1.723.134 6.200 1.729.334 .456, 198 .456, 198 MN 25. Mississippi .240,128 240, 128 Missouri . 26. MO .570.370 570.370 27. Montana 280,593 MT 280,593 28. Nebraska NE 464 259 1 800 466 059 281,149 281,149 ΝV 30. New Hampshire NH 180 047 180 047 New Jersey 31. 1,560,489 1,560,489 NJ 32 New Mexico 105 . 155 .105 . 155 NM 33. New York NY 177,378 .177,378 34. North Carolina NC 1,203,355 1,203,355 35. North Dakota ND 6.342 6.342 1,320,984 1,320,984 OH 37 Oklahoma OK 960 679 960 679 38. 398,498 Oregon 398,498 OR 2,151.668 2,148,168 39 Pennsylvania 3,500 Rhode Island 40. RI 176.786 176.786 724,063 41 South Carolina 724,063 42. South Dakota SD 44.631 44.631 673,819 43. 673,819 ΤN 44. Texas ТХ 3 068 505 3 068 505 45. Utah. 375,431 375,431 UT 46. Vermont .90,405 1,200 .91,605 Virginia. 1.576.194 VA 1.576.194 48 Washington 722,200 WA West Virginia 49. WV 178 926 178 926 50. Wisconsin .426,473 426,473 W١ 51. Wyoming WY 27 381 27 381 52. American Samoa AS 53 Guam GŪ Puerto Rico PR 55. U.S. Virgin Islands ۷I 56. Northern Mariana Islands MP CAN 58. Aggregate Other Alien ОТ XXX 202 454 202 454 59. 50 21,760 .37,086,857 37, 108, 617 90. Reporting entity contributions for employee benefit 91. Dividends or refunds applied to purchase paid-up additions and annuities. XXX 92 XXX .340.867 340.867 XXX disability or other contract provisions, 94. Aggregate or other amounts not allocable by State. XXX Totals (Direct Business). .37,427,724 21,760 .37,449,484 XXX 96. Plus reinsurance assumed XXX 97 Totals (All Business). .37,449,484 XXX 37.427.724 21.760 98 Less reinsurance ceded. 139,933,022 139,933,022 XXX Totals (All Business) less Reinsurance Ceded 21,760 99 XXX (102.505.298 (102.483.538 DETAILS OF WRITE-INS 58001. ZZZ Other Alien XXX .202.454 202 454 XXX 58003 Summary of remaining write-ins for Line 58 from 58998. XXX 58999 58998)(Line 58 above) 202,454 202,454 XXX 9401 XXX 9402 XXX 9403. XXX Summary of remaining write-ins for Line 94 from 9498. 9499.

Explanation of basis of allocation by states, etc., of premiums and annuity considerations Individual insurance premiums and annuity considerations - allocated to the states in which the policyholder resides (based on Company records when the premium is received). Group premiums - allocated consistent with the 500 lives rule.

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

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

⁽b) Column 4 should balance with Exhibit 1, Lines 6.4, 10.4, and 16.4, Cols. 8, 9, 10, or with Schedule H, Part 1, Line 1, indicate which: Exhibit 1, Lines 6.4, 10.4, and 16.4, Cols. 8, 9, 10.

SCHEDULE T - PART 2

INTERSTATE COMPACT - EXHIBIT OF PREMIUMS WRITTEN

Allocated by States and Territories

Direct Business Only

			Direct Business Only									
			1	2	3 Disability	4 Long-Term	5	6				
			Life	Annuities	Income	Care						
	States Ets		(Group and Individual)	(Group and Individual)	(Group and Individual)	(Group and Individual)	Deposit-Type Contracts	Totals				
	States, Etc.		,	individual)	individual)	individual)	Contracts					
1.		AL	213,208					213,208				
2.	Alaska		23,620					23,620				
3.	Arizona	ΑZ	933,338					933,338				
4.	Arkansas	AR	70,860					70,860				
5.	California	CA	4,381,306					4,381,306				
6.	Colorado	СО	809,269					809,269				
7.	Connecticut	СТ	665,582					665,582				
8.	Delaware	DE	84,253					84,253				
9.	District of Columbia		157,953					157,953				
10.	Florida		2,363,807					2,363,807				
	Georgia		695,516					695,516				
11.								*				
12.	Hawaii		201,711					201,711				
13.	ldaho		60,429					60,429				
14.	Illinois	IL	1,369,433					1,369,433				
15.	Indiana	IN	650,809					650,809				
16.	lowa	IA	605,459	1,800				607,259				
17.	Kansas	KS	391,214					391,214				
18.	Kentucky	KY	311,487	6,000				317,487				
19.	Louisiana		399,568					399,568				
20.	Maine		185,884					185,884				
21.	Maryland		1, 179, 440	1.260				1, 180, 700				
22.	Massachusetts			1,200				968,517				
								*				
23.	Michigan		1,723,134	6,200				1,729,334				
24.	Minnesota		456 , 198					456 , 198				
25.	Mississippi	MS	240 , 128					240 , 128				
26.	Missouri	MO	570,370					570,370				
27.	Montana	MT	280,593					280,593				
28.	Nebraska	NE	464,259	1,800				466,059				
29.	Nevada	NV	281,149					281, 149				
30.	New Hampshire		180,047					180,047				
31.	·	NJ	1,560,489					1,560,489				
32.	New Mexico	NM	105 , 155					105 , 155				
33.	New York		177,378					177,378				
34.	North Carolina		1,203,355					1,203,355				
35.	North Dakota		*					6,342				
36.	Ohio		1,320,984					1,320,984				
37.	Oklahoma		960,679					960,679				
38.	Oregon	OR	398,498					398,498				
39.	Pennsylvania	PA	2, 148, 168	3,500				2, 151,668				
40.	Rhode Island	RI	176,786					176,786				
41.	South Carolina	SC	724,063					724,063				
42.	South Dakota	SD	44,631					44,631				
43.	Tennessee	TN	673,819					673,819				
44.	Texas		3,068,505					3,068,505				
45.	Utah		375,431					375,431				
46.	Vermont		90,405	1.200				91,605				
46. 47.	Virginia		1,576,194	1,200				1,576,194				
	-							722,200				
48.	Washington							*				
49.	West Virginia		178,926					178,926				
50.		WI	426,473					426,473				
51.	Wyoming		27,381					27,381				
52.	American Samoa	AS										
53.	Guam	GU					ļ					
54.	Puerto Rico	PR										
55.	U.S. Virgin Islands	VI					ļ .					
56.	Northern Mariana Islands											
57.	Canada											
58.	Aggregate Other Alien		202,454					202,454				
		Ŭ '	37,086,857	21,760				37,108,617				
59.	Total		01,000,001	۷۱,/۵۷		<u> </u>	ı	01,100,011				

PART 1 – ORGANIZATIONAL CHART

The following entities are general partner level or above of Massachusetts Mutual Life Insurance Company (Parent)

	Federal Tax ID	NAIC Co Code	State of Domicile
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY Direct & Indirect Owned Subsidiaries:	04-1590850	65935	Massachusetts
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	70410	Delaware
CML Mezzanine Investor L, LLC	06-1041383		Delaware
CML Mezzanine Investor III, 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
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timber Sales, Inc.	20-5305426		New York
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
WP-SC, LLC*	26-4441097		Delaware
MSP-SC, LLC	04-1590850		Delaware
MSI Financial Services, Inc.	13-3175978		Delaware
Country Club Office Plaza LLC*	27-1435692		Delaware
Invicta Advisors LLC	56-2574604		Delaware
Jefferies Finance LLC*	27-0105644		Delaware
Apex Credit Partners LLC	None		Delaware
JFIN Fund III LLC	None		Delaware
JFIN Asset Management LLC	None		Delaware
JFIN Co-Issuer Corporation	None		Delaware
JFIN Europe GP, S.a.r.l.	None		Luxembourg
Jefferies Finance Europe, SCSp	None		Luxembourg
Jefferies Finance Business Credit LLC	None		Delaware
JFIN Business Credit Fund I LLC	None		Delaware
JFIN High Yield Investments LLC	None		Delaware
JFIN LC Fund LLC	None		Delaware
JFIN Revolver CLO Holdings LLC	None		Delaware
JFIN CLO 2007 Ltd.	None		Cayman Islands
JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2013 Ltd.	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands
JFIN CLO 2014-II Ltd.	None		Cayman Islands
JFIN MM CLO 2014 Ltd.*	None		Cayman Islands

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

	Federal Tax ID	NAIC Co Code	State of Domicile
JFIN CLO 2015 Ltd.*	None		Cayman Islands
JFIN CLO 2015-II Ltd.*	None		Cayman Islands
JFIN Revolver CLO Ltd.	None		Cayman Islands
JFIN Revolver CLO 2014 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2015 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.*	None		Cayman Islands
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
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental 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
Fern Street LLC	37-1732913		Delaware
First Mercantile Trust Company	62-0951563		Tennessee
Haven Life Insurance Agency, LLC	46-2252944 06-1597528		Delaware North Carolina
MassMutual Assignment Company	04-1590850		Delaware
MassMutual Capital Partners LLC MassMutual Ventures LLC	47-1296410		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
Society of Grownups, LLC	47-1466022		Massachusetts
MM Asset Management Holding LLC	45-4000072		Delaware
Barings LLC	51-0504477		Delaware
Barings Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
BCF Senior Funding I Designated Activity Company	None		Ireland

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings Securities LLC	04-3238351		Delaware
Barings Guernsey Limited	98-0437588		Guernsey
Barings (UK) Limited	98-0432153		United Kingdom
Barings 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
Barings Global Advisors Limited	98-1012393		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Babson European Direct Lending 1 GP LLP	None		United Kingdom
Barings Advisers (Japan) KK	None		Japan
Barings Multifamily Capital Holdings LLC	None		Delaware
Barings Multifamily Capital LLC	None		Michigan
Barings Multifamily Capital Corporation	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		California
Barings Real Estate Advisers Japan KK	None		Japan
Barings Real Estate UK Holdings Limited	None		Delaware
BREAE AIFM LLP	None		United Kingdom
Barings Real Estate Advisers (Continental Europe) Limited	98-0654401		United Kingdom
Barings Real Estate Advisers Europe LLP	98-0654388		United Kingdom
Barings Real Estate Advisers Europe Finance LLP	98-0654412		United Kingdom
Barings Real Estate Advisers GmbH	98-1194368		Germany
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 Limited	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 Sarl	None		Switzerland
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC

^{*}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.

	Federal Tax ID NAIC Co Code	State of Domicile
Baring France SAS	98-0497550	France
Baring Fund Managers Limited	98-0457586	United Kingdom
Baring Pension Trustees Limited	98-0457574	United Kingdom
	98-0457578	United Kingdom
Barings Australia Holding Company Pty Ltd	None	Australia
Barings Australia Pty Ltd	98-0457456	Australia
Barings Investment Advisers (Hong Kong) Limited	None	Hong Kong, Special Administrative Region of China
	47-2642354	Delaware
Chassis Acquisition Holding LLC	81-2244465	Delaware
	81-4258759	Delaware
Milestone Acquisition Holding, LLC.	47-3055009	Delaware
Red Lake Ventures, LLC	46-5460309	Delaware
Remington L & W Holdings LLC*	81-4065378	Connecticut
Solar Acquisition Holding, LLC	None	Delaware
Sweet Tree Holdings 1, LLC	46-3123110	Delaware
Tamiami Citrus, LLC	None	Delaware
Teaktree Acquisition, LLC	None	Delaware
U.S. Buyer Broadcasting, LLC	47-1855920	Delaware
U.S. WIG Holdings, LP	46-1500495	Delaware
U.S. Pharmaceuticals Holdings II, LLC	47-5436800	Delaware
VGS Acquisition Holding, LLC	None	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 Global Loan Feeder Management, LLC	None	Delaware
Barings CLO Investment Partners GP, LLC	None	Delaware
Barings Global Energy Infrastructure Advisors, LLC	None	Delaware
Barings North American Private Loan Fund Management, LLC	None	Delaware
Barings TERO Management LLC	None	Delaware
	98-0536233	Cayman Islands
Great Lakes III GP, LLC	04-1590850	Delaware
	04-1590850	Delaware
Mezzco LLC	04-1590850	Delaware
	02-0767001	Delaware
	41-2280126	Delaware
Mezzco IV LLC	80-0920285	Delaware
Mezzco Australia LLC	90-0666326	Delaware
Mezzco Australia II LLC	None	Delaware
SDCOS Management LLC	04-1590850	Delaware
Somerset Special Opportunities Management LLC	04-1590850	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.

	Federal Tax ID	NAIC Co Code	State of Domicile
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
OFI International, Ltd.	None		United Kingdom
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
VTL Associates, LLC	None		Pennsylvania
Index Management Solutions, LLC	None		Pennsylvania
OFI Global Asset Management, Inc.	84-0765063		Delaware
OFI Private Investments Inc.	91-2036414		New York
Tremont Group Holdings, LLC	62-1210532		New York
Tremont Partners, LLC	06-1121864		Connecticut
Tremont GP, LLC	20-8215352		Delaware
Settlement Agent LLC	90-0874510		Delaware
Tremont (Bermuda) Limited	None		Bermuda
MassMutual International LLC	04-3313782		Delaware
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
MML Management Corporation	04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444		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
Cornerstone Global REIT Corporation	20-8730751		Delaware
Other Affiliates & Funds:	04.1500050		D.1
100 w. 3 rd Street LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	04-1590850		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.

	Federal Tax ID	NAIC Co Code	State of Domicile
300 South Tryon LLC	04-1590850		Delaware
54 West Capital LLC	20-3887968		Delaware
Alexandria Towers Investors LLC	16-1720387		Delaware
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
Barings Emerging Markets Corporate Bond Fund	None		Ireland
Barings Emerging Markets Local Debt Fund	None		Ireland
Barings Global Special Situations Credit Fund 1	None		Ireland
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Barings US High Yield Bond Fund*	None		Ireland
Babson CLO Ltd. 2007-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
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 CLO Ltd. 2016-I	None		Cayman Islands
Babson CLO Ltd. 2016-II	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2014-II BV	None		Netherlands
Babson Euro CLO 2015-I BV	None		Netherlands
Babson Euro CLO 2016-I BV	None		Netherlands
Babson Capital Global Credit Fund (Lux) SCSp, SIACV-SIF	None		Luxembourg Ireland
Baring Emerging Market Corp Debt Fund Baring Focused EAFE Equity Fund	None 11-3789446		Delaware
Baring Global Dynamic Asset Allocation Fund	30-0607379		Delaware
Baring Global Dynamic Asset Allocation Fund Baring International Small Cap Equity Fund	26-4142796		Delaware Delaware
Barings CLO Investment Partners LP*	81-0841854		Delaware
Barings Real Estate European Value Add I SCSp*	None		United Kingdom
Benton Street Partners I. L.P.*	98-0536233		Cayman Islands
Benton Street Partners II, L.P.*	98-0536199		Cayman Islands
Braemar Energy Ventures I, L.P. *	None		Delaware
Cambridge Hotel, LLC	06-1614196		Delaware
Chevenne Mountain Resort LLC	04-1590850		Delaware
Barings European Core Property Fund SCSp	None		Luxembourg
Suings Suispeni Cote Troperty Fully Octop	1,0110		Zaomooarg

^{*}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.

	Federal Tax ID	NAIC Co Code	State of Domicile
Cornerstone Core Mortgage Venture I LP	27-1701622		Delaware
Cornerstone Enhanced Mortgage Fund I LP	45-3751572		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
Barings/LAZ Parking Fund LP	46-5437441		Delaware
Barings Core Property Fund LP	20-5578089		Delaware
Cornerstone Real Estate Fund VIII LP	27-0547156		Delaware
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
Duchess VI CLO B.V.	None		United Kingdom
Duchess VII CLO B.V.	None		United Kingdom
E-Wise Land Venture LLC	20-3887968		Delaware
Gateway Mezzanine Partners I, L.P.*	80-0691253		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
Kazwell Realty Partners LLC	20-3887968		Delaware
King Alexander LLC	45-3754085		Delaware
Marco Hotel LLC	46-4255307		Delaware
MM Debt Participations LLC*	81-3000420		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
Rockall CLO B.V.	None		United Kingdom
Rockville Town Center LLC	54-2055778		Virginia
SDCOS L.P.	74-3182902		Delaware
Seattle 1415 Hotel Owner LLC	46-5491311		Delaware
Sedona TFMP Land LLC	04-1590850		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
South Myrtle Monrovia MM LLC	04-1590850		Delaware
South Pasco Properties LLC	20-3887968		Delaware
Tower Square Capital Partners, L.P.*	04-3722906		Delaware
Tower Square Capital Partners II, L.P.*	30-0336246		Delaware
Tower Square Capital Partners II-A, L.P.*	32-0160190		Delaware
Tower Square Capital Partners III, L.P.*	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129		Delaware
Tower Square Capital Partners IV-A, L.P.	80-0920367		Delaware
West 46 th Street Hotel LLC	05-1590850		Delaware
g Affiliates & Funds:			
Barings Emerging Markets Debt Blended Total Return Fund	None		Ireland

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

	Federal Tax ID NAIC Co Code	State of Domicile
Barings Emerging Markets Debt Short Duration Fund	None	Ireland
Barings Emerging Markets Sovereign Debt Fund	None	Ireland
Babson Capital Floating Rate Income Fund, L.P.	27-3330830	Delaware
Barings Global Investment Grade Corporate Plus Fund	None	Ireland
Babson Capital Loan Strategies Master Fund LP	None	Cayman Islands
Barings Emerging Markets Debt Blended Total Return Fund	47-3758432	Massachusetts
Barings Emerging Markets Local Currency Debt Fund	47-3774453	Massachusetts
Barings Global High Yield Fund	47-3790192	Massachusetts
Baring Greater China Equity Fund	None	Hong Kong
Barings Total Return Bond Fund	47-3734770	Massachusetts
Barings U.S. High Yield Fund	47-3801860	Massachusetts
Gateway Mezzanine Partners I Trust	None	Australia
Great Lakes II LLC*	71-1018134	Delaware
Great Lakes LLC*	56-2505390	Delaware
Intermodal Holding II LLC	46-2344300	Delaware
Somerset Special Opportunities Master Fund LP	None	Cayman Islands
Wood Creek Venture Fund LLC	04-1590850	Delaware
Barings Real Estate Affiliates & Funds:		
12-18 West 55th Street Predevelopment, LLC*	20-2548283	Delaware
50 Liberty LLC*	36-4823011	Delaware
One Harbor Shore LLC*	80-0948028	Delaware
2 Harbor Shore Member LLC*	46-4803557	Delaware
AT Mid-Atlantic Office Portfolio LLC*	45-2779931	Delaware
Barings Global Energy Infrastructure Fund I LP	04-1590850	Kentucky
Budapester Strasse LLC	81-4382111	Delaware
CHC/RFP VI Core LLC	04-1590850	Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717	California
Cornerstone California Mortgage Fund II LLC	95-4207717	California
Cornerstone Fort Pierce Development LLC*	56-2630592	Delaware
Cornerstone Permanent Mortgage Fund	45-2632610	Massachusets
Cornerstone Permanent Mortgage Fund II	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund III	35-2531693	Massachusetts
CREA 330 Third LLC*	46-5001122	Delaware
CREA FMF Nashville LLC	46-4367364	Delaware
CREA/LYON West Gateway, LLC*	26-2399532	Delaware
CREA Madison Member LLC	81-0890084	Delaware
CREA/PPC Venture LLC*	20-0348173	Delaware
Fallon Cornerstone One MPD LLC*	26-1611591	Delaware
Fan Pier Development LLC*	20-3347091	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.

Federal Tax ID NAIC Co Code State of Domicile

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Farringdon London Holdings LLC*	46-3880526		Delaware
Infinity SCD Ltd.	None		United Kingdom
Johnston Groves LLC	20-4819358		Delaware
MM Chatham Office LLC*	81-2871333		Delaware
MM/Hines Harrison LLC*	46-5347643		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Sawgrass Village Shopping Center LLC*	27-2977720		Delaware
Ten Fan Pier Boulevard LLC*	None		Delaware
Twenty Two Liberty LLC*	35-2484550		Massachusetts
UK LIW Manager LLC	45-4606547		Delaware
UK LIW Member LLC	45-4606547		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
Waterford Development Associates	20-2970495		Delaware
Waterloo London Holdings LLC	47-1993493		Delaware
WeHo Domain LLC*	46-3122029		Delaware
Willowwod Lakeside Master LLC	81-1552222		Delaware
Ygnatio Valley Funding	20-5481477		Delaware
MassMutual Premier Funds:	20 3 101 177		Delaware
MassMutual Barings Dynamic Allocation Fund	45-3168892		Massachusetts
MassMutual Premier Focused International Fund	02-0754273		Massachusetts
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Premier Value Fund	04-3277550		Massachusetts
MassMutual Select Funds:	013277330		Massachasetts
MassMutual Select Diversified International Fund	14-1980900		Massachusetts
MassMutual Select Diversified Value Fund	01-0821120		Massachusetts
MassMutual Select Fundamental Growth Fund	04-3512593		Massachusetts
MassMutual Select Large Cap Value Fund	04-3513019		Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935		Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954		Massachusetts
MassMutual Select Small Company Value Fund	04-3584140		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 2055 Fund	46-3289207		Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235		Massachusetts

^{*}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.

	Federal Tax ID NAIC Co	Code State of Domicile
MassMutual RetireSMART Conservative Fund	45-1618155	Massachusetts
MassMutual RetireSMART Growth Fund	45-1618222	Massachusetts
MassMutual RetireSMART Moderate Fund	45-1618262	Massachusetts
MassMutual RetireSMART Moderate Growth Fund	45-1618046	Massachusetts
Oppenheimer Funds:		
Oppenheimer Developing Markets Fund	93-6305075	Delaware
Oppenheimer Developing Markets Equity UCITS	None	Ireland
Oppenheimer Emerging Markets Innovators UCITS	None	Ireland
Oppenheimer ESG Revenue ETF	81-3492794	Delaware
Oppenheimer Global ESG Revenue ETF	81-3480754	Delaware
Oppenheimer Global Equity UCITS	None	Ireland
Oppenheimer Global High Yield Fund	45-3417590	Delaware
Oppenheimer Global Multi-Asset Growth Fund	47-3676235	Delaware
Oppenheimer Global Multi-Asset Income Fund	47-1714929	Delaware
Oppenheimer Global Real Estate Fund*	46-1604428	Delaware
Oppenheimer Global Value Equity UCITS	None	Ireland
Oppenhemier International Growth & Income Fund	81-3136071	Delaware
Oppenheimer Macquarie Global Infrastructure Fund	81-1080638	Delaware
Oppenheimer SteelPath Panoramic Fund	47-3987967	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.

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1,000											Massachusetts Mutual Life Insurance					1
1,000			l	47-5322979				Timberland Forest Holding LLC	DE	NI A	Company	Ownership.	95.000	MMLIC		1
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000 04-59685 08-9-50, LC CE NiA Corpany											Massachusetts Mutual Life Insurance	·				1
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Description Description	٠			27-1435692				Country Club Office Plaza LLC	DE	NI A	C.M. Life Insurance Company	Ownership	11.900	MMLIC		
December December																1
Description				56-2574604				Invicta Advisors LLC	DE	NI A		Ownership	100.000	_ MMLIC		
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December December				27-0105644												1
December December								Apex Credit Partners LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	. MMLIC		4
DOOD JFIN Asset Management LLC DE								JFIN Fund III LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
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			l							NI A		Ownership		MMLIC		1
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						Exchange		Domi-	ship		Management,	ship		Filing	
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000							JFIN MM CLO 2014 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN CLO 2015 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	44.000	MMLIC		
0000							JFIN CLO 2015 Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership	56.000	MMLIC		
0000							JFIN CLO 2015-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	33.000	MMLIC		
0000							JFIN CLO 2015-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	53.000	MMLIC		
.0000							JFIN Revolver CLO Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership.	100.000	MMLIC		1
0000							JFIN Revolver CLO 2014 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							JFIN Revolver CLO 2015 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN Revolver CLO 2015 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
0000							JFIN CLO 2016 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
0004		-					JEIN OLU ZUIO LIU.	1WL	NI A	Massachusetts Mutual Life Insurance	owner strip		MINILIO		
0000			04 4500050				Marakatan I Bakimanak O	D-	A		0	100 000	MML IC		
0000		-	04-1590850				MassMutual Retirement Services, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
			l					1		Massachusetts Mutual Life Insurance	l				
0000			04-3356880		0000943903		MML Distributors LLC	MA	NI A	Company	Ownership	99.000	MMLIC		
0000			04-3356880		0000943903		MML Distributors LLC	MA	NI A	MassMutual Holding LLC	Ownership	1.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MML Investment Advisers, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MML Mezzanine Investor, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							, ==			Massachusetts Mutual Life Insurance					
0000			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			10 0200010				mine otratogra brati ibatora, ella			Massachusetts Mutual Life Insurance	omici dirip		mine 10		1
0000			06-1563535	2881445	0001103653		The MassMutual Trust Company, FSB	CT	NIA	Company	Ownership	100.000	MMLIC	v	
			. 00-1303333	2001443	0001103033		The wasswatuar frust company, rob	01		Massachusetts Mutual Life Insurance	Owner sirrp		. mimLTO		
0000			04-1590850				MMC Equipment Finance LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MMC Equipment Finance LLC	Ownership	99.600	MMLIC		
			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company		99.600	MMLIC		
0000									NIA	U.M. Life insurance company	Ownership		MMLIC		
			27-1379258				MMAF Equipment Finance LLC 2009-A	DE		MassMutual Asset Finance LLC	Ownership	100.000			
0000			45-2589019				MMAF Equipment Finance LLC 2011-A	DE	NI A	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
							MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance					
0000			04-1590850				LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850		0000067160		MML Private Equity Fund Investor LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NI A	MML Private Equity Fund Investor LLC	Ownership	100.000	_ MMLIC		
			1							Massachusetts Mutual Life Insurance					
0000		.	45-2738137				Pioneers Gate LLC	DE	NI A	Company	Ownership	100.000	_ MMLIC		
		I	1							Massachusetts Mutual Life Insurance					
0000		.	45-4376777	.			MSC Holding Company, LLC	DE	NI A	Company	Ownership	100.000	MMLIC	У	1
0000			04-3341767				MassMutual Holding MSC, Inc.	MA	NI A	MSC Holding Company, LLC	Ownership	100.000	MMLIC		
			1							Massachusetts Mutual Life Insurance					
0000		.1	04-2854319	2392316	l		MassMutual Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC	Υ Υ	.1
0000			06-1597528				MassMutual Assignment Company	NC	NI A	MassMutual Holding LLC	Ownership.	100.000	MMLIC		1
.0000			37-1732913	1			Fern Street LLC	DE	NI A	MassMutual Holding LLC	Ownership.	100.000	MMLIC		1
.0000			62-0951563	1160004	0001259664		First Mercantile Trust Company	TN	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		1
.0000			46-2252944	1100004	500 1203004		Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		1
.0000			04-1590850		0001399869		MassMutual Capital Partners LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000		-	47-1296410		000 1033003		MassMutual Ventures LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		1
0000			04-1590850			***************************************		DE		MassMutual Holding LLC			MMLIC		1
		-					MM Rothesay Holdco US LLC		NI A		Ownership	100.000			
0000		-	47-1466022		000070 :050		Society of Grownups, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	. MMLIC		
0000		-	04-1590850		0000701059		MML Investors Services, LLC	MA	NI A	MassMutual Holding LLC	Ownership	100.000	- MMLIC		
0000			04-1590850				MML Insurance Agency, LLC	MA	NI A	MML Investors Services, LLC	Ownership	100.000	MMLIC		
0000		.	41-2011634		0001456663		MMLISI Financial Alliances, LLC	DE	NI A	MML Investors Services, LLC	Ownership	51.000	MMLIC		
0000		.	45-4000072				MM Asset Management Holding LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000			51-0504477	.l	0000009015		Barings LLC	DE	NI A	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		1

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000			80-0875475				Barings Finance LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							BCF Europe Funding Limited	IRL	NI A	Barings Finance LLC	Ownership	100.000	MMLIC		
0000							BCF Senior Funding LLC	DE	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
							BCF Senior Funding I Designated Activity								
0000							Company	IRL	NI A	Barings Finance LLC	Ownership	100.000	- MMLIC		
0000			. 04-3238351 98-0437588		0000930012		Barings Securities LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			98-0437588				Barings Guernsey Limited Barings (UK) Limited	GBR	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			. 30-0432133				Barings GPC GP S.à.r.I .	LUX	NIA	Barings (U.K.) Limitled	Ownership	100.000	MMLIC		
0000							Almack Mezzanine GP III Limited	GBR	NIA	Barings (U.K.) Limitied	Ownership	100.000	MMLIC		
0000							Almack Holding Partnership GP Limited	GBR	NI A	Barings (U.K.) Limitled	Ownership	100.000	MMLIC		
0000							Almack Mezzanine Fund Limited	GBR	NI A	Barings (U.K.) Limitied	Ownership	100.000	MMLIC		
0000							Almack Mezzanine Fund II Limited	GBR	NI A	Barings (U.K.) Limitied	Ownership	100.000	MMLIC		
0000			98-1012393				Barings Global Advisors Limited	GBR	NI A	Barings (U.K.) Limitied	Ownership	100.000	MMLIC		
0000							BCGSS 2 GP LLP	GBR	NI A	Barings (U.K.) Limitied	Ownership	100.000	. MMLIC		
0000							Babson European Direct Lending 1 GP LLP	GBR	NI A	Barings (U.K.) Limitied	Ownership	100.000	MMLIC		
0000							Barings Advisers (Japan) KK	JPN	NI A	Barings LLC	Ownership	100.000	- MMLIC		
0000							Barings Multifamily Capital Holdings LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							Barings Multifamily Capital LLC	MI	NIA NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			04-3238351	3456895	0001011148		Barings Multifamily Capital Corporation Barings Real Estate Advisers Inc	CA	NIA	Barings Real Estate Advisers LLC	Ownership	100.000	MMLIC		
0000			. 04-3236331	. 3430093	. 0001011140		Barings Real Estate Advisers Japan KK	JPN	NIA	Barings Real Estate Advisers LLC	Ownership	100.000	MMLIC		
0000							Barings Real Estate UK Holdings Limited	DE	NIA	Barings Real Estate Advisers LLC	Ownership	100.000	MMLIC		
0000							BREAE AIFM LLP	GBR	NI A	Barings Real Estate Advisers LLC	Ownership	100.000	MMLIC		
							Barings Real Estate Advisers (Continental								
0000			98-0654401				Europe) Limited	GBR	NI A	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0654388				Barings Real Estate Advisers Europe LLP	GBR	NI A	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		
							Barings Real Estate Advisers Europe Finance								
0000			. 98-0654412				LLP	GBR	NI A	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		
0000			98-1194368				Barings Real Estate Advisers GmbH	DEU	NI A	Barings Real Estate UK Holdings Limited	Ownership	100.000	- MMLIC		
0000			. 04-1590850 98-0241935	2363071	0000932463		MassMutual Baring Holding LLC Baring North America LLC	DE	NIA NIA	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		
0000			90-0241935	_ 23030/1	. 0000932463		MassMutual Holdings (Bermuda) Limited	MA	NIA	MassMutual Baring Holding LLC MassMutual Baring Holding LLC	Ownership	100.000	MMLIC		
0000			98-0241935				Baring Asset Management Limited	GBR	NIA	MassMutual Holdings (Bermuda) Limited	Ownership	100.000	MMLIC		
0000			98-0457328		0001568131		Baring International Investment Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
							Baring International Investment Management			Dat mg noot management 2 mil tou					
0000			98-0457587				Holdings	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
										Baring International Investment Management				1	
0000			98-0457576				Baring Asset Management UK Holdings Limited .	GBR	NIA	Holdings	Ownership	100.000	MMLIC		
										Baring Asset Management UK Holdings Limited	il .			1	
0000			98-0465031				Baring Asset Management GmbH	DEU	NI A		Ownership	100.000	MMLIC		
0000			00 050 (07)				Baring Asset Management (Asia) Holdings	11/2		Baring Asset Management UK Holdings Limited	1	400 000	IIII 10	1	
0000			98-0524271				Limited	HKG	NIA	5	Ownership	100.000	MMLIC		
0000			98-0457465				Baring International Fund Managers (Bermuda)	DMI	NIA	Baring Asset Management (Asia) Holdings	O-marahi-	100.000	MMLIC		
0000			. 20-040/400				Limited	BMU	NIA	Limited	Ownership	100.000	MINILIO		
0000			98-0457463				Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership.	100.000	MMLIC	1	
0000							Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
									I	Baring Asset Management (Asia) Holdings					
0000			98-0236449				Baring Asset Management (Japan) Limited	JPN	NI A	Limited	Ownership	100.000	MMLIC		
							Baring Asset Management (Australia) Pty		1	Baring Asset Management (Asia) Holdings					
0000			98-0457456				Limited	AUS	NI A	Limited	Ownership	100.000	MMLIC		
1							Baring International Fund Managers (Ireland)		1	Baring Asset Management UK Holdings Limited	il .			1	
0000			98-0524272				Limited	IRL	NI A		Ownership	100.000	. MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC					Names of		- 1-						
		NAIC	ID.			if Publicly Traded	Names of	ciliary	to	D: 11 O 1 11 11	Attorney-in-Fact,	Provide	1.1112 1 0 1 112	Re-	
Group	0 11	Company	, ID	Federal	0117	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	_
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	
										Baring Asset Management UK Holdings Limited	l	400.000			
0000							Baring Asset Management Switzerland Sàrl	CHE	NI A	D : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ownership	100.000	MMLIC		
0000			00 0457707				D : 010F (T :) 1 : : 4 1	THAT	AU A	Baring Asset Management UK Holdings Limited		400.000	188 10		
0000			. 98-0457707				Baring SICE (Taiwan) Limited	TWN	NI A	D A M IV II. III I : i i	Ownership	100.000	MMLIC		
0000			98-0497550				Danian France 040	EDA	ALL A	Baring Asset Management UK Holdings Limited	0	100.000	MMLIC		
0000			98-0497550				Baring France SAS	FRA GBR	NI A NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-0457574				Baring Fund Managers Limited Baring Pension Trustees Limited	GBR	NIA		Ownership	100.000	MMLIC		
0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Asset Management Limited Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			. 30-043/3/0				Barings Australia Holding Company Pty Ltd	AUS	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000			98-0457456				Barings Australia Pty Ltd	AUS	NIA	Baring Australia Holding Company Pty Ltd.	Ownership	100.000	MMLIC		
			00-040/400	-			Barings Investment Advisors (Hong Kong)		NIV	During Australia noturing company Fty Ltu	omici sitip		mmL10		
0000					I		Limited	HKG	NI A	Barings LLC	Ownership	100.000	MMLIC		
0000			47-2642354				Alchemy Copyrights, LLC.	DE	NIA	MassMutual Holding LLC	Ownership/Influence	15.200	MMLIC		
			2012001				Atonomy obpyrights, LEO.			Massachusetts Mutual Life Insurance	Owner strip/ Titl ruence	10.200	_ mmL10		
0000			47-2642354				Alchemy Copyrights, LLC.	DE	NIA	Company	Ownership	0.100	MMLIC		
0000			47-2642354				Alchemy Copyrights, LLC.	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC		
. 0000			81-2244465				Chassis Acquisition Holding LLC	DE	NI A	MassMutual Holding LLC	Ownership/Influence	30.000	MMLIC		
0000			81-2244465				Chassis Acquisition Holding LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC		
							onadoro noquioreron norumg 220			Massachusetts Mutual Life Insurance					
0000			81-4258759				CRA Aircraft Holding LLC	DE	NI A	Company	Ownership/Influence	40.000	MMLIC		l
0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC		
0000			47-3055009				Milestone Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	18.300	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			47-3055009				Milestone Acquisition Holding, LLC.	DE	NI A	Company	Ownership	0.000	. MMLIC		
0000			47-3055009				Milestone Acquisition Holding, LLC.	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Company	Ownership/Influence	15.800	MMLIC		
0000			46-5460309				Red Lake Ventures, LLC	DE	NI A	Wood Creek Capital Management LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-4065378				Remington L & W Holdings LLC	CT	NI A	Company	Ownership/Influence	66.700	MMLIC		
0000			81-4065378				Remington L & W Holdings LLC	CT	NI A	Wood Creek Capital Management LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-3123110				Sweet Tree Holdings 1, LLC	DE	NI A	Company	Ownership/Influence	16.100	MMLIC		
0000			46-3123110	-			Sweet Tree Holdings 1, LLC	DE	NI A	Wood Creek Capital Management LLC	Influence	-	MMLIC		
					1					Massachusetts Mutual Life Insurance	l	45.705			
0000							Tamiami Citurus, LLC	DE	NI A	Company	Ownership	15.700	MMLIC		
0000			-				Teaktree Acquisition, LLC	DE	NI A	MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
0000			-				Teaktree Acquisition, LLC	DE	NI A	Wood Creek Capital Management LLC	Influence	-	MMLIC		
0000					I		II C. Dinier Drandenstin II C.	DE	NU.A	Massachusetts Mutual Life Insurance	O-manahi - /lmfl	10 700	100 10		
0000							U.S. Buyer Broadcasting, LLC	DE	NI A	Company	Ownership/Influence	12.700	MMLIC		
0000			46-1500495				U.S. Buyer Broadcasting, LLC	DE	NI A NI A	Wood Creek Capital Management LLC MassMutual Holding LLC	Influence Ownership/Influence	11.700	MMLIC		
			46-1500495				U.S. WIG Holdings, LP	DE				11.700	MMLIC		
0000		-	40-1000490	-			U.S. WIG Holdings, LP	VE	NI A	Wood Creek Capital Management LLC Massachusetts Mutual Life Insurance	Influence		MMLIV		
0000			20-2970495		I		US Pharmaceutical Holdings II, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	42.600	MMLIC		
0000		-	20-2970495	-			US Pharmaceutical Holdings II, LLCUS Pharmaceutical Holdings II, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence	42.000	MMLIC		
							OO THATHACEULICAT HOTUTHYS II, LLC	VE	NIA	Massachusetts Mutual Life Insurance	TITI TUELICE		. mmL10		
0000					I		Solar Acquisition Holding, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	39.200	MMLIC		
0000			1				Solar Acquisition Holding, LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC		
0000		-					VGS Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	33.300	MMLIC		
0000							VGS Acquisition Holding, LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC		
			1				Tao haqa. or troit florating, EEO			Massachusetts Mutual Life Insurance					
0000			46-3378584		1		WC Aircraft Holdings US II, LLC	DE	NIA	Company	Ownership/Influence	17.900	MMLIC		
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	?
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0000			46-3378584				WC Aircraft Holdings US II, LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	_				
0000							Wood Creek Aircraft Holding I, LP	CYM	NIA	Company	Ownership	12.100	MMLIC		
0000							Wood Creek Aircraft Holding I, LP	CYM	NI A	Wood Creek Capital Management LLC	Management		MMLIC		
0000			04-1590850		0001501011		Babson Capital Floating Rate Income Fund Management, LLC	DE			0 1:	400 000	MMLIC		
0000			. 04-1090800		000 150 10 11		Babson Global Loan Feeder Management, LLC	DE	NI A NI A	Barings LLC	Ownership	100.000	MMLIC		
0000							Barings CLO Investment Partners GP, LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
							Barings Global Energy Infrastructure			Dut mgo LEO	omor on p		mile 10		
0000							Advisors, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings North American Private Loan Fund								
0000							Management, LLC	DE	NI A	Barings LLC	Ownership	100.000	. MMLIC		
0000							Barings TERO Management LLC	DE	NI A	Barings LLC	Ownership	100.000			
0000			98-0536233				Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership	100.000	. MMLIC		
0000			. 04-1590850				SDCOS Management LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
0000			. 04-1590850 04-1590850				Great Lakes III GP, LLC Loan Strategies Management LLC	DE	NIA NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			04-1590850				Mezzco LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			02-0767001				Mezzco II LLC	DE	NIA	Barings LLC	Ownership.	98.400	MMI IC		
. 0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership.	99.300	MMLIC		
0000			80-0920285				Mezzco IV LLC	DE	NI A	Barings LLC	Ownership	99.300	MMLIC		
0000			90-0666326				Mezzco Australia LLC	DE	NIA	Barings LLC	Ownership	72.000	MMLIC		
0000							Mezzco Australia II LLC	DE	NI A	Barings LLC	Ownership	100.000	. MMLIC		
							Somerset Special Opportunities Management L								
0000			. 04-1590850 84-1149206	2897101			Oppenheimer Acquisition Corp.	DE	NI A NI A	Barings LLC	Ownership	100.000 97.100	. MMLIC		
0000			. 13-2527171	2897101	0000820031		Oppenheimer Acquisition Corp.	DE	NIA NIA	MassMutual Asset Management Holding LLC Oppenheimer Acquisition Corp	Ownership	100.000	MMLIC		
0000			13-2953455	2079103	00000276541		OppenheimerFunds, Inc.	NY	NIA	Oppenheimer Acquisition corp.	Ownership	100.000	MMLIC		
0000			84-1106295		0000270011		Oppenheimer Real Asset Management, Inc.	DE	NIA	OppenheimerFunds, Inc.	Ownership	100.000	MM IC		
0000			13-4160541	3458125	0001179479		OFI Global Institutional, Inc.	NY	NI A	OppenheimerFunds, Inc.	Ownership	_100.000	MMLIC		
0000			13-3459790	2914875			OFI Global Trust Company	NY	NI A	OFI Institutional Asset Management, Inc	Ownership	100.000	MMLIC		
0000							OFI International, Ltd.	GBR	NIA	OFI Institutional Asset Management, Inc	Ownership	100.000	. MMLIC		
0000			22-2697140				HarbourView Asset Management Corporation	NY	NI A	OFI Institutional Asset Management, Inc	Ownership	100.000	. MMLIC		
0000			25-1951632		0000099782		Trinity Investment Management Corporation	PA	NIA	OFI Institutional Asset Management, Inc	Ownership	100.000	MMLIC		
0000			. 84-1128397 84-1066811		0000857468 0000276398		OFI SteelPath, Inc	DE	NI A NI A	OppenheimerFunds, Inc.	Ownership	100.000	MMLIC		
0000			04-1000011		00002/0390		VTL Associates . LLC	PA	NIA	OppenheimerFunds, Inc.	Ownership	100.000	MMLIC		
0000							Index Management Solutions, LLC	PA	NIA	OppenheimerFunds, Inc.	Ownership	100.000	MMI IC		
0000			84-0765063		0001041674		OFI Global Asset Management, Inc.	DE	NI A	OppenheimerFunds, Inc.	Ownership	100.000	MMLIC		
0000			91-2036414		0001179480		OFI Private Investments Inc.	NY	NI A	OppenheimerFunds, Inc.	Ownership	100.000	MMLIC		
0000			62-1210532				Tremont Group Holdings, LLC	NY	NI A	Oppenheimer Acquisition Corp.	Ownership	100.000	MMLIC		
0000			. 06-1121864		0000764139		Tremont Partners, LLC	CT	NI A	Tremont Group Holdings, Inc.	Ownership	100.000	. MMLIC		
0000			20-8215352				Tremont GP, LLC	DE	NI A	Tremont Group Holdings, Inc.	Ownership	100.000	. MMLIC		
0000			90-0874510				Settlement Agent LLC	DE	NI A	Tremont GP	Ownership	100.000	MMLIC		
0000				-			Tremont (Bermuda) Limited	BMU	NI A	Tremont Group Holdings, Inc	Ownership	100.000	MMLIC		
.0000			04-3313782		1		MassMutual International LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	100.000	MMLIC	v	
0000			. 04-0010/02				MassMutual Asia Limited	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
0000				-			MassMutual Asia Investors Ltd.	HKG	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC		
0000							MassMutual Guardian Limited	HKG	NIA	MassMutual Asia Limited	Ownership.	100.000	MMLIC		-
0000							MassMutual Insurance Consultants Limited	HKG	NIA	MassMutual Asia Limited	Ownership.	100.000	MMLIC		
0000							MassMutual Services Limited	HKG	NI A	MassMutual Asia Limited	Ownership	100.000	MMLIC		
0000							MassMutual Trustees Limited	HKG	NIA	MassMutual Asia Limited	Ownership	80.000	MMLIC		
0000			98-0610331				Protective Capital (International) Limited	HKG	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC		

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Barings Global Special Situations Credit Fund IRL NIA Company Ownership/Influence 98.700 MMLIC			
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											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	,
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000	Group Name	Oodc	37-1506417	ПООВ	Olix	international	Babson Capital Loan Strategies Fund, L.P.	DE	NIA	Barings LLC	Management	tage	MMLIC	(1/14)	+
5000							Daboon capital Loan otratogree Fana, E.F.			Massachusetts Mutual Life Insurance	managomone				
0000							Barings US High Yield Bond Fund	IRL	NI A	Company	Ownership/Influence	42.200	MMLIC		
0000							Barings US High Yield Bond Fund	IRL	NI A	Barings LLC	Management		MMLIC		
0000							Babson CLO Ltd. 2007-I	CYM	NI A	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2012-I	CYM	NI A	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2012-II	CYM	NI A	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2013-I	CYM	NI A	Barings LLC	Influence	-	MMLIC		4
0000			98-1128827				Babson CLO Ltd. 2013-II	CYM	NI A	Barings LLC	Influence		MMLIC		5
0000							Babson CLO Ltd. 2014-1	CYM	NI A NI A	Barings LLC	Influence	-	MMLIC		2 6
							Babson CLO Ltd. 2014-II	CYM	NIA	Barings LLC	Influence				פ
0000							Babson CLO Ltd. 2014-III	CYM	NIA	Barings LLC	Influence	-	MMLIC		7
0000							Babson CLO Ltd. 2015-1	CYM	NI A	Barings LLC	Influence		MMLIC		8
0000							Babson CLO Ltd. 2016-1	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson CL0 Ltd. 2016-I	CYM	NI A	Barings LLC	Influence		MMLIC		-1
0000							Babson Euro CLO 2014-1 BV	NLD	NIA	Barings LLC	Influence		MMLIC		1
0000							Babson Euro CLO 2014-II BV	NLD	NI A	Barings LLC	Influence_		MMLIC		
0000							Babson Euro CLO 2015-I BV	NLD	NI A	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2016-I BV	NLD	NI A	Barings LLC	Influence		MMLIC		
							Babson Global Credit Fund (Lux) SCSp, SIACV-			Massachusetts Mutual Life Insurance					
0000							SIF	LUX	NI A	Company	Ownership/Influence	15.700	MMLIC		
							Babson Global Credit Fund (Lux) SCSp, SIACV-								
0000							SIF	LUX	NI A	Barings LLC	Management		MMLIC		
0000			04 0044054				D : 010 L	DE		Massachusetts Mutual Life Insurance	0 1: // //	00.000	MW 10		
0000			81-0841854 81-0841854				Barings CLO Investment Partners LP	DE	NIA NIA	Company	Ownership/Influence	99.900	MMLIC		
0000			8 1-084 1854				Barings CLO Investment Partners LP Barings Real Estate European Value Add I SCSp		NI A	Barings LLC	management		MMLIC		
0000							Barrings hear Estate European varue Auu i 303p	GBR	NI A	Company	Ownership/Influence	90.000	MMLIC		
							Barings Real Estate European Value Add I SCSp			Company	ownership/initiachec		millio		
0000							Darrigo nour zotato zaropour tatao nau i coop	GBR	NI A	C.M. Life Insurance Company	Ownership	10.000	NMLIC		
							Barings Real Estate European Value Add I SCSp								
0000								GBR	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Baring Emerging Market Corp Debt Fund	IRL	NI A	Company	Ownership/Influence	88.700	MMLIC		
0000							Baring Emerging Market Corp Debt Fund	IRL	NI A	Baring Asset Management Limited	Management		MMLIC		
			07005					25		Massachusetts Mutual Life Insurance		40.500			
0000			. 11-3789446 11-3789446	-			Baring Focused EAFE Equity Fund	DE	NIA	Company	Ownership/Influence	42.500	MMLIC		
0000			. 11-3/89446				Baring Focused EAFE Equity Fund	DE	NI A	Baring Asset Management Limited Massachusetts Mutual Life Insurance	Management		MMLIC		
0000			30-0607379		0001497049		Baring Global Dynamic Asset Allocation Fund .	DE	NI A	Company	Ownership/Influence	18.800	MMLIC		
0000			30-0607379		0001497049		Baring Global Dynamic Asset Allocation Fund	DE	NIA	Baring Asset Management Limited	Management	10.000	MMLIC		
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0000			26-4142796				Baring International Small Cap Equity Fund	DE	NI A	Company	Ownership/Influence	63.400	NMLIC		
0000			26-4142796				Baring International Small Cap Equity Fund	DE	NI A	Baring Asset Management Limited	Management		MMLIC		
0000			98-0536233	.			Benton Street Partners I, L.P.	CYM	NI A	MassMutual Capital Partners LLC	Ownership/Influence	99.600	MMLIC		
0000			98-0536233				Benton Street Partners I, L.P.	CYM	NI A	Barings LLC	Management		MMLIC		
0000			98-0536233	-			Benton Street Partners I, L.P	CYM	NI A	C.M. Life Insurance Company	Ownership	0.300	MMLIC		
								015		Massachusetts Mutual Life Insurance					
0000			98-0536233				Benton Street Partners I, L.P.	CYM	NI A	Company	Ownership	0.000	MMLIC		
0000			00 0500400				Benton Street Bestness II I B	0/11	NIA	Massachusetts Mutual Life Insurance	Ownership / Influence	20 200	MMLIC		
0000			98-0536199 98-0536199	-			Benton Street Partners II, L.P Benton Street Partners II, L.P	CYM	NIA	Company	Ownership/Influence	28.200	MMLIC		د
0000			98-0536199				Benton Street Partners II, L.P.	CYML	NIA	Barings LLC	Management		MMLIC		
DOOU			ซซา บบบบ เฮฮ				שטוונטו טנוככנ ומונווכוס II, L.F			Dai mgo LLO	mai iayanani		mmLIV		

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											of Control	Control			
											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
0			ID.	F11						Discostice Constructional Inc.			I liting at a Compton library		
Group		Company	ID.	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	_
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	
										Massachusetts Mutual Life Insurance					
0000							Braemar Energy Ventures I, L.P.	DE	NI A	Company	Ownership/Influence	92.600	MMLIC		
0000							Braemar Energy Ventures I, L.P.	DE	NI A	Barings LLC	Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			06-1614196				Cambridge Hotel, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Cheyenne Mountain Resort LLC	DE	NI A	Company	Ownership	100.000	. MMLIC		
0000							Barings European Core Property Fund SCSCp	LUX	NI A	MassMutual Holding LLC	Ownership/Influence	94.000	MMLIC		
0000		.					Barings European Core Property Fund SCSCp	LUX	NI A	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
0000							Barings European Core Property Fund SCSCp	LUX	NI A	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture LP	DE	NI A	Company	Ownership/Influence	50.000	MMLIC		
0000		.	27-1701622		0001481752		Cornerstone Core Mortgage Venture LP	DE	NI A	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000		.	45-3751572		0001534877		Cornerstone Enhanced Mortgage Fund I LP	DE	NI A	Company	Ownership/Influence	15.600	MMLIC		
0000			45-3751572		0001534877		Cornerstone Enhanced Mortgage Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			20-8730751				Cornerstone Global Real Estate LP	DE	NI A	Company	Ownership/Influence	92.300	MMLIC		
0000			20-8730751				Cornerstone Global Real Estate LP	DE	NI A	C.M. Life Insurance Company	Ownership	7.600	MMLIC		l
.0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	1				
0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NI A	Company	Ownership/Influence	50.000	MMLIC		
0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NI A	Barings Real Estate Advisers LLC	Management		MMLIC		
							Cornerstone Hotel Income & Equity Fund II LP			Massachusetts Mutual Life Insurance	- Indiagonori				
0000			26-1828760		0001423638			DE	NI A	Company	Ownership/Influence	0.000	MMLIC		
							Cornerstone Hotel Income & Equity Fund II LP			ompany					
0000			26-1828760		0001423638		control of the contro	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
0000			20-5578089				Barings Core Property Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	10.400	MMLIC		
0000			20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
			20 00/0000				but mgo out of reporty fund in			Massachusetts Mutual Life Insurance	managomont		I IIII I I		
0000			27-0547156				Cornerstone Real Estate Fund VIII LP	DE	NI A	Company	Ownership/Influence	14.400	MMLIC		
0000			27-0547156				Cornerstone Real Estate Fund VIII LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
			27 00 17 100				Corner ottorio riour Estato i una vitti El			Massachusetts Mutual Life Insurance	managomorit		I IIIIE TO		
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Company	Ownership/Influence	25.100	MMLIC		
			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	C.M. Life Insurance Company	Ownership.	2.800	MMLIC		1
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Barings Real Estate Advisers LLC	Management_		MMLIC		
			10 0702013				Control of tone float Estate Fully A El			Massachusetts Mutual Life Insurance	- managomont		- IIIIIE I V		
0000			46-5437441				Barings/LAZ Parking Fund LP	DE	NI A	Company	Ownership/Influence	100.000	MMLIC	1	
0000			46-5437441				Barings/LAZ Parking Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management	100.000	MMLIC		1
0000			40-040/441	3981641			Duchess VI CLO B.V.	UE	NIA NIA	Barings LLC	Influence		MMLIC		
0000		-		4007502			Duchess VII CLO B.V.	GBR			Influence		MMLIC		·
0000		-		4007002			Duchess VII OLU D.V.	udh	NI A	Barings LLC	inituence		NIMIL I U		
0000		1	20-3887968				E Wise Land Venture II C	DE	NIA	Massachusetts Mutual Life Insurance	Ownorship	100 000	MMLIC	- 1	
0000		-	20-388/968				E-Wise Land Venture LLC	VE	NI A	Company	Ownership	100.000	MMLIU		
0000		1	00 0004050		0004547400		Outron Managina Bank 1 1 B	DE	AU A	Massachusetts Mutual Life Insurance	Oursell (Intly	04.000	100	- 1	
0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	DE	NIA	Company	Ownership/Influence	64.000	MMLIC		
0000		-	80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	DE	NI A	C.M. Life Insurance Company	Ownership	7.900	MMLIC		·
0000		-	80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.	DE	NI A	MassMutual Holding LLC	Ownership	8.900	MMLIC		
0000		-	80-0691253		0001517196		Gateway Mezzanine Partners I, L.P	DE	NI A	Barings LLC	Management		MMLIC		
		1	L							Massachusetts Mutual Life Insurance	L			- 1	
0000		-	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NI A	Company	Ownership/Influence	35.000	MMLIC		
0000		-	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NI A	C.M. Life Insurance Company	Ownership	5.200			
0000		.	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NI A	MassMutual Holding LLC	Ownership	5.400	MMLIC		
0000		.1	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Barings LLC	Management	<u> </u>	_ MMLIC		.1

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						Name of Securities			Relation-		Board,			SCA	
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						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
	•									Massachusetts Mutual Life Insurance					
0000			37-1708623		0001565779		Great Lakes III, L.P.	DE	NI A	Company	Ownership/Influence	35.700	MMLIC		
0000			37-1708623		0001565779		Great Lakes III, L.P.	DE	NI A	Barings LLC	Management		MMLIC		l
										Massachusetts Mutual Life Insurance					
0000			20-3887968				Kazwell Realty Partners LLC	DE	NI A	Company	Ownership	100.000	MMLIC		l
							•			Massachusetts Mutual Life Insurance					
0000			45-3754085				King Alexander LLC	DE	NI A	Company	Ownership	100.000	MMLIC		l
										Massachusetts Mutual Life Insurance					
0000			46-4255307				Marco Hotel LLC	DE	NI A	Company	Ownership	100.000	MMLIC		ll
										Massachusetts Mutual Life Insurance					
0000			81-3000420				MM Debt Participations LLC	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
0000			81-3000420				MM Debt Participations LLC	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			26-3799762				MML O'Hare Hotel LLC	DE	NI A	Company	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			20-3887968				Oakley Grove Development LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
			20 000,000				dativy drove pererephone and			Massachusetts Mutual Life Insurance					
0000			20-3887968				Old Pasco Properties LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
			20 000,000				014 1 4000 1 1 op 01 1 1 00 220			Massachusetts Mutual Life Insurance					
0000			75-2901061				Reston Arboretum LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
							1100 to 1 711 bot o to 1111 220 11111111111111111111111111111			Massachusetts Mutual Life Insurance					
0000			30-0713071				Riva Portland LLC	DE	NI A	Company	Ownership.	100.000	MMLIC		
0000			00 07 1007 1				Rockall CLO B.V.	GBR	NIA	Barings LLC	Influence		MMLIC		
							NOORATT OLO D.T.			Massachusetts Mutual Life Insurance	Titi donoc.				
0000			54-2055778				Rockville Town Center LLC	VA	NI A	Company	Ownership	100.000	MMLIC		
0000			74–3182902				SDCOS L.P.	DE	NIA	Barings LLC	Management		MMLIC		
			0.02002				0000 2			Massachusetts Mutual Life Insurance	- managomon c				
0000			46-5491311				Seattle 1415 Hotel Owner LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			10 0101011							Massachusetts Mutual Life Insurance					
0000			04-1590850				Sedona TFMP Land LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							Oddina ii iii Earia EEO			Massachusetts Mutual Life Insurance					
0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	DE	NIA	Company	Ownership/Influence	63.400	MMLIC		
0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	DE	NI A	C.M. Life Insurance Company	Ownership.	3.100	MMLIC		
0000			20-8856877		0001409910		Somerset Special Opportunities Fund L.P.	DE	NIA	Barings LLC	Management		MMLIC		
							The second secon		T	Massachusetts Mutual Life Insurance					[
0000			04-1590850				South Myrtle Monrovia MM LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
									T	Massachusetts Mutual Life Insurance					[
0000		1	20-3887968				South Pasco Properties LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					[
0000		1	30-0336246		0001345379		Tower Square Capital Partners II, L.P.	DE	NIA	Company	Ownership/Influence	28.100	MMLIC		
0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	DE	NI A	C.M. Life Insurance Company	Ownership	4.500	MMLIC		[
0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	DE	NI A	Barings LLC	Management		MMLIC		
							oqual o oup itul i ul tilolo i i , Eli i			Massachusetts Mutual Life Insurance					[
0000		1	32-0160190				Tower Square Capital Partners II-A, L.P	DE	NIA	Company	Ownership/Influence	80.400	MMLIC		
. 0000			32-0160190	l			Tower Square Capital Partners II-A, L.P.	DE	NI A	C.M. Life Insurance Company	Ownership	14.200	MMLIC		
0000			32-0160190				Tower Square Capital Partners II-A, L.P.	DE	NI A	Barings LLC	Management		MMLIC		
0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	DE	NI A	Barings LLC	Management		MMLIC		[
										Massachusetts Mutual Life Insurance					
0000		I	41-2280127	l	0001447547		Tower Square Capital Partners III, L.P.	DE	NI A	Company	Ownership/Influence	3.200			
0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	DE	NI A	MassMutual Holding LLC	Ownership/Influence	20.100	MMLIC		
							oup tur further first bill			Massachusetts Mutual Life Insurance			T		
0000		1	41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P	DE	NI A	Company	Ownership/Influence	96.600	MMLIC		
0000			41-2280129		0001447548		Tower Square Capital Partners IIIA, L.P.	DE	NI A	Barings LLC	Management		MMLIC		
								-	+						

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					Exchange		Domi-	ship		Management,	ship		Filing	"
		NAIC			if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	"
Group		Company	ID	Federal	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	, '
Code	Group Name	Code	Number	RSSD CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000	areap rearre	0000	ramoon	TIOOD OIL	intomationary	OT 7 tilliated	11011	Linkly	Massachusetts Mutual Life Insurance	Guiery	lago	Entity(100)/1 010011(0)	(1/1.4)	+
0000			80-0920367	0001598727		Tower Square Capital Partners IV-A, L.P	DE	NIA	Company	Ownership/Influence	21.900	MMLIC		"
0000			80-0920367	0001598727		Tower Square Capital Partners IV-A, L.P.	DE	NIA	Barings LLC	Management		MMLIC		
									Massachusetts Mutual Life Insurance	, and the second				"
0000			04-3722906	0001228752		Tower Square Capital Partners, L.P.	DE	NI A	Company	Ownership/Influence	38.200	MMLIC		'
0000			04-3722906	0001228752		Tower Square Capital Partners, L.P	DE	NI A	C.M. Life Insurance Company	Ownership	0.600	MMLIC		
0000			04-3722906	0001228752		Tower Square Capital Partners, L.P.	DE	NI A	Barings LLC	_ Management		MMLIC		
									Massachusetts Mutual Life Insurance					"
0000			04-1590850			West 46th Street Hotel LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000						Barings Emerging Markets Debt Blended Total	IRL	ALL A	Di 110	W		188 10		"
0000						Return Fund Barings Emerging Markets Debt Short Duration	IHL	NI A	Barings LLC	_ Management		MMLIC		
0000						Fund	IRL	NIA	Barings LLC	Management		MMLIC		"
0000						Barings Emerging Markets Sovereign Debt Fund	INL	NI A	bal fligs LLC	- management				
0000						barrings Emergring markets doverergi best rund	IRL	NIA	Barings LLC	Management		MMLIC		"
						Babson Capital Floating Rate Income Fund,			Dut mgo LEO	managonori				
0000		l	27-3330830			L.P.	DE	NI A	MassMutual Holding LLC	Ownership	0.000			
						Babson Capital Floating Rate Income Fund,								,
0000			27-3330830	0001521404		L.P	DE	NI A	Barings LLC	Management		MMLIC		
						Babson Capital Loan Strategies Master Fund LP			_					1
0000							CYM	NI A	Barings LLC	. Management		MMLIC		
						Barings Global Investment Grade Corporate								"
0000						Plus Fund	IRL	NI A	Barings LLC	Management		MMLIC		
0000			47-3758432			Barings Emerging Markets Debt Blended Total Return Fund	MA	NIA	Di 110	W		MMLIC		"
			47-3738432			Barings Emerging Markets Local Currency Debt	MA	NI A	Barings LLC	. Management		MMLIC		
0000			47-3774453			Fund	MA	NIA	Barings LLC	Management		MMLIC		"
0000			47-3790192			Barings Global High Yield Fund	MA	NIA	Barings LLC	Management		MMLIC		
0000			0.00.02			Baring Greater China Equity Fund	HKG	NI A	Baring Asset Management Limited	Management		MMLIC		
0000			47-3734770			Barings Total Return Bond Fund	MA	NI A	Barings LLC	Management		MMLIC		
0000			47-3801860			Barings U.S. High Yield Fund	MA	NI A	Barings LLC	. Management		MMLIC		
0000						Gateway Mezzanine Partners I Trust	AUS	NI A	Barings LLC	Management		MMLIC		'
									Massachusetts Mutual Life Insurance					"
0000			71-1018134			Great Lakes II LLC	DE	NI A	Company	Ownership	11.200	MMLIC		
0000			71-1018134			Great Lakes II LLC	DE	NI A	C.M. Life Insurance Company	Ownership	1.000	MMLIC		
0000			EC 0505000			Creat Lakes II C	DE	NIJ A	Massachusetts Mutual Life Insurance	O-march i	4 400	MARILE		1
0000			56-2505390 56-2505390			Great Lakes LLC	DE	NIA NIA	Company	Ownership	4.400	MMLIC		
0000			46-2344300			Intermodal Holdings II LLC	DE	NIA	Wood Creek Capital Management LLC	Influence	טטס.ע	MMLIC		
			10 2077000			Somerset Special Opportunities Master Fund		NIA	mood or ook oup rear management LLO	11111401100				
0000		l				LP	CYM	NIA	Barings LLC	Management		MMLIC		
									Massachusetts Mutual Life Insurance					
0000			04-1590850			Wood Creek Venture Fund LLC	DE	NIA	Company	Ownership	40.000	MMLIC		
1									Massachusetts Mutual Life Insurance					
0000			20-2548283			12-18 West 55th Street Predevelopment, LLC	DE	NI A	Company	Ownership	89.200	MMLIC		
0000			20-2548283			12-18 West 55th Street Predevelopment, LLC	DE	NI A	C.M. Life Insurance Company	Ownership	7.800	MMLIC		
									Massachusetts Mutual Life Insurance	l	76			1
0000			46-4803557			2 Harbor Shore Member LLC	DE	NI A	Company	Ownership	70.800	MMLIC		
0000			46-4803557			2 Harbor Shore Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	7.000	MMLIC		
0000			36-4823011			50 Liberty LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	46.100	MMLIC		
0000			36-4823011			50 Liberty LLC	DE	NIA	C.M. Life Insurance Company	Ownership	46.100	MMLIC		
0000			00-4020011			OU LINGILY LLU			Massachusetts Mutual Life Insurance	omici sitip				
0000			80-0948028			One Harbor Shore LLC	DE	NIA	Company	Ownership	32.300	MMLIC		
			00.0020											

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											(Ownership,	is		ls an	
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						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group	0 N	Company	, ID	Federal RSSD	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	
0000			80-0948028				One Harbor Shore LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.200	MMLIC		
0000			45-2779931				AT Mid-Atlantic Office Portfolio LLC	DE	NIA	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		
		-	10 2770001				Barings Global Energy Infrastructure Fund I			Massachusetts Mutual Life Insurance	omoromp		I IIII LIV		
0000			04-1590850				LP	KY	NI A	Company	Ownership	80.800	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-4382111				Budapester Strasse LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
								25		Massachusetts Mutual Life Insurance		400.000			
0000			. 04-1590850				CHC/RFP VI Core LLC	DE	NIA	Company	Ownership	100.000	MMLIC		4
0000			95-4207717					CA	NIA	Company	Ownership.	100.000	MMLIC		
0000		-	. 95-4207717				Cornerstone Carriornia mortgage Fund i LLC	UA	NIA	Massachusetts Mutual Life Insurance	Owner Sirrp	100.000	MMLIC		
0000			95-4207717				Cornerstone California Mortgage Fund II LLC _	CA	NIA	Company	Ownership	100.000	MMLIC		
		-					oomorotono ourronna mortgago rana rr 220 :			Massachusetts Mutual Life Insurance					
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	Company	Ownership	84.400	MMLIC		
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.600	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NI A	Company	Ownership	100.000	MMLIC		4
			0.4.4750507							Massachusetts Mutual Life Insurance		400.000			
0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Company Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
0000			35-2531693				Cornerstone Permanent Mortgage Fund III	MA	NIA	Company	Ownership	100.000	MMLIC		
		-	. 00-200 1000				Corner stone i er manerit mortgage i unu i i	IMA		Massachusetts Mutual Life Insurance	Owner Sirry		MMLIO		
0000			. 46-5001122				CREA 330 Third LLC	DE	NI A	Company	Ownership	0.900	MMLIC		<u> </u>
0000			46-5001122				CREA 330 Third LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-4367364				CREA FMF Nashville LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							0051 4 VOLUM 1 0 1	25		Massachusetts Mutual Life Insurance		54 000			
0000			26-2399532 26-2399532				CREA/LYON West Gateway, LLC	DE	NIA NIA	Company	Ownership	54.000	MMLIC		·
0000			81-0890084				CREA/LYON West Gateway, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
							CHEA MAUTSOIT WEILDET LLC		NIA	Massachusetts Mutual Life Insurance	Owner Sirrp		MMLIC		
0000			20-0348173				CREA/PPC Venture LLC	DE	NIA	Company	Ownership	93.400	MMLIC		
0000			20-0348173				CREA/PPC Venture LLC	DE	NI A	C.M. Life Insurance Company	Ownership.	6.600	MMLIC		
										Massachusetts Mutual Life Insurance	,				
0000			26-1611591	. 3956836			Fallon Cornerstone One MPD LLC	DE	NI A	Company	Ownership	67 . 100	MMLIC		
0000		.	26-1611591	3956836			Fallon Cornerstone One MPD LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.600	MMLIC		
								25		Massachusetts Mutual Life İnsurance		50 505			
0000		-	20-3347091	-			Fan Pier Development LLC	DE	NIA	Company	Ownership	58.500	MMLIC	[
0000			. 20-3347091				Fan Pier Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.800	MMLIC		
0000			46-3880526				Farringdon London Holdings LLC	DE	NIA	Company	Ownership.	94.500	MMLIC		
0000			46-3880526				Farringdon London Holdings LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.500	MMLIC		1
			1	1						Massachusetts Mutual Life Insurance					
0000			.				Infinity SCD Ltd	GBR	NI A	Company	Ownership	4.200	MMLIC		ļl
									1	Massachusetts Mutual Life Insurance					
0000			20-4819358	-			Johnston Groves LLC	DE	NI A	Company	Ownership	57.200	MMLIC		l
0055								25		Massachusetts Mutual Life Insurance		05 :			
0000			81-2871333	-			MM Chatham Office LLC	DE	NI A	Company	Ownership	83.400	MMLIC		·
0000			01 0071000				MM Chatham Office LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	16.600	MMLIC		
0000			81-2871333				IMM Chatham Uttice LLC	UE	NI A	Company Massachusetts Mutual Life Insurance	Ownership	000.01	MMLIC		
0000			46-5347643				MMI/Hines Harrison LLC	DE	NIA	Company	Ownership	82.800	MMLIC		
0000		-1	6401400-041	-1			mmii/iiiilGə ilali i əuli LLU	UĽ		voiiipairy	Umingi 9111h		mmLIV		1

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Type	If			
											of Control	Control			
											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NIAIO					Name of								
		NAIC				if Publicly Traded	Names of	ciliary	to	5: " 6 : " 11	Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000			46-5347643				MMI/Hines Harrison LLC	DE	NI A	C.M. Life Insurance Company	Ownership	7.200	MMLIC		
							Salomon Brothers Commercial Mortgage Trust								
0000							2001-MM	DE	NI A	Barings Real Estate Advisers LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NI A	Company	Ownership	84.200	MMLIC		
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NI A	C.M. Life Insurance Company	Ownership	15.800	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Ten Fan Pier Boulevard LLC	DE	NI A	Company	Ownership	91.000	MMLIC		
0000							Ten Fan Pier Boulevard LLC	DE	NI A	C.M. Life Insurance Company	Ownership	9.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			35-2484550				Twenty Two Liberty LLC	MA	NI A	Company	Ownership	59.200	MMLIC		
0000			35-2484550				Twenty Two Liberty LLC	MA	NI A	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 45-4606547				UK LIW Manager LLC	DE	NI A	Company	Ownership	1.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 45-4606547				UK LIW Member LLC	DE	NI A	Company	Ownership	99.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NI A	Company	Ownership	92.000	MMLIC		
000Q			45-5401109				Washington Gateway Apartments Venture LLC	DE	NI A	C.M. Life Insurance Company	Ownership	4.800	MMLIC		
										Massachusetts Mutual Life Insurance					
000Q			. 20-2970495				Waterford Development Associates	DE	NI A	Company	Ownership	90.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 47-1993493				Waterloo London Holdings LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			. 46-3122029				WeHo Domain LLC	DE	NI A	Company	Ownership	77.400	MMLIC		
0000			46-3122029				WeHo Domain LLC	DE	NI A	C.M. Life Insurance Company	Ownership	12.600	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-1552222				Willowwood Lakeside Master LLC	DE	NI A	Company	Ownership	50.000	MMLIC		
			00 5404477				v v.u = "			Massachusetts Mutual Life Insurance					
0000			20-5481477				Ygnatio Valley Funding	DE	NIA	Company	Ownership	90.000	MMLIC		
0000			45 0400000			00				Massachusetts Mutual Life Insurance	0 1:	0.000	188.10		
0000			45-3168892			0Q	MassMutual Barings Dynamic Allocation Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
0000			E4 0E00000	00	000007070	00	Marakhatan I Danaina Maia Otanat Food		NIA	Massachusetts Mutual Life Insurance	0hi	0.000	100		
0000			51-0529328		000927972	0Q	MassMutual Premier Main Street Fund	MA	NI A	Company	Ownership	2.000	MMLIC		
0000			26-3229251		000927972	100	MassMutual Premier Strategic Emerging Markets	MA MA	NIA	Massachusetts Mutual Life Insurance	Ownership	10.900	MMLIC		
0000				00	000921912	UV	Fund	MA	NIA	Company Massachusetts Mutual Life Insurance	Ownership		MMLIC		
0000			. 04-3277550		000927972	00	Manahutua I Promier Value Fund	MA	NIA		Ownership	97.200	MML1C		
0000				00	000321312	UV	MassMutual Premier Value Fund MassMutual Select Diversified International	MA		Company	Ownership		- MINIL I U		
0000			14-1980900		000916053	100	Fund	MA	NIA	Company	Ownership	31.800	MML1C		
טטטע			14-1300300	00	66001 6000	υ ν	I uliu	MA	NI A	Massachusetts Mutual Life Insurance	owner sitty	۱.۵۷۷	mmLIV		
0000			01-0821120	00	000916053	00	MassMutual Select Diversified Value Fund	MA	NIA	Company	Ownership	12.700	MMLIC		
0000			01-0621120		000910000	lod	massmutual select Diversified value rund	MA	NI A	Massachusetts Mutual Life Insurance	Owner Sirrp	12.700	- MMLIO		
0000			04-3512593	00	000916053	00	MassMutual Select Fundamental Growth Fund	MA	NIA	Company	Ownership	6.000	MMLIC		
0000			04-00 12030	00	66001 6000	ОЧ	massimutua i serect i unudillentar drowth Fund	MA		Massachusetts Mutual Life Insurance	omici airi p	000. را	. mmL10		
0000			. 04-3513019	00	000916053	00	MassMutual Select Large Cap Value Fund	MA	NI A	Company	Ownership	19.300	MMLIC		
0000			61 001 00-40	00	66001 6000	OW	massimuluar serect Large cap varue ruilu	MA		Massachusetts Mutual Life Insurance	omici sitty		. mmLIV		
0000			42-1710935	l loc	000916053	loo	MassMutual Select Mid-Cap Value Fund	MA	NIA	Company	Ownership	74.900	MMLIC		
0000					00001 5000	υ ν	MassMutual Select Small Capital Value Equity		NI /	Massachusetts Mutual Life Insurance	νιποι σιτιρ		IIIIIL V		
0000			. 02-0769954	l loc	000916053	loo	Fund	MA	NIA	Company	Ownership	20.300	MMLIC		
0000					00001 5000	υ ν	I unu	INA	NI /	Massachusetts Mutual Life Insurance	νιποι σιτιρ		IIIIIL V		
0000			04-3584140	l nr	000916053	00	MassMutual Select Small Company Value Fund	MA	NIA	Company	Ownership	18.800	MMLIC		
0000			0007170		0000 0000		massimatear octoot omarr company value fullu			Massachusetts Mutual Life Insurance	νπιοι σιτιρ		, mmL1V		
0000			46-4257056	l nr	000067160		MML Series International Equity Fund	MA	NIA	Company	Ownership	8.900	MMLIC		
0000		1			100 10000		I mine our ros international Equity Fullu	m/\	tat \	voiipuit)	· Γοπιοι σιιτρ	טטט.ע	mm=1 \(\cdot \)		

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-	_		-			·		_		• •	Type	If			
											of Control	Control			
											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board.	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC					Name of		- 1						
0		_	ID.	F		if Publicly Traded	Names of	ciliary	to	Dina atha Caratualla di bar	Attorney-in-Fact,	Provide	Lillations and a Company little or	Re-	
Group		Company	ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	_
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	
			47 05 47000							Massachusetts Mutual Life Insurance					
0000			47-3517233		0001317146		MML Series II Asset Momentum Fund	MA	NI A	Company Massachusetts Mutual Life Insurance	Ownership	96.200	MMLIC		
0000			47 0500000		0004047440			MA				0.000	IIII 10		
0000			47-3529636		0001317146		MML Series II Dynamic Bond Fund	MA	NI A	Company Massachusetts Mutual Life Insurance	Ownership	3.600	MMLIC		
0000			47-3544629		0001317146		MM Control II Forth Datation Ford	MA	NIA		Ownership	98.600	MML IC		
		-	41-0044029		000 13 17 140		MML Series II Equity Rotation Fund	MA	NI A	Company Massachusetts Mutual Life Insurance	- Owner SITP	000.000	MINIL I C		1
0000			47-3559064		0001317146		MML Series II Special Situations Fund	MA	NIA		Ownership	98.700	MMLIC		
		-	47-3339004		000 13 17 140		www. Series II Special Situations rund	MA	NIA	Company Massachusetts Mutual Life Insurance	- Owner SITP	90.700	MINIL I C		·
			46-3289207		0000916053		MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	22.100	MMLIC		
			40-3209207		0000910055		massmutual netilesmani 2000 Fuliu	MA	NI A	Massachusetts Mutual Life Insurance	Owner Sirrp	22. 100	. MMLIC		
			47-5326235		0000916053		MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership	97.900	MMLIC		
			47 3020203		0000310030		massimutuar netricomarii 2000 runu			Massachusetts Mutual Life Insurance	Owner Sirip.		- minL10		
			45-1618155		0000916053		MassMutual RetireSMART Conservative Fund	MA	NIA	Company	Ownership.	9.300	MML IC		
			45 1010100		0000310030		massimutuar netricommin oonservative runu			Massachusetts Mutual Life Insurance	Owner Sirip		, miller o		
0000			45-1618222		0000916053		MassMutual RetireSMART Growth Fund	MA	NIA	Company	Ownership	24.300	MMLIC		
			10 1010222		0000010000		macomataa notti commit aramti and			Massachusetts Mutual Life Insurance	Omici dirip				
			45-1618262		0000916053		MassMutual RetireSMART Moderate Fund	MA	NIA	Company	Ownership.	11.200	MMLIC		
			10 1010202				maddinatal notification in made at a raid			Massachusetts Mutual Life Insurance					
0000			45-1618046		0000916053		MassMutual RetireSMART Moderate Growth Fund	MA	NIA	Company	Ownership.	11.800	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			93-6305075				Oppenheimer Developing Markets Fund	DE	NI A	Company	Ownership	0.900	MMLIC		
0000							Oppenheimer Developing Markets Equity UCITS .	IRL	NI A	OppenheimerFunds, Inc.	Management		MMLIC		
							Oppenheimer Emerging Markets Innovators UCITS								
0000								IRL	NI A	OppenheimerFunds, Inc.	Management		MMLIC		
0000			81-3492794				Oppenheimer ESG Revenue ETF	DE	NI A	OppenheimerFunds, Inc.	Management		MMLIC		
0000							Oppenheimer Global Equity UCITS	IRL	NI A	OppenheimerFunds, Inc.	Management		MMLIC		
0000			81-3480754				Oppenheimer Global ESG Revenue ETF	DE	NIA	OppenheimerFunds, Inc.	Management		MMLIC		
0000			45-3417590		0001530245		Oppenheimer Global High Yield Fund	DE	NI A	OppenheimerFunds, Inc	Management		MMLIC		·
									1	Massachusetts Mutual Life Insurance					
0000		-	46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE	NI A	Company	Ownership	67.900	MMLIC		·
		-	46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE		C.M. Life Insurance Company	Ownership	5.600	MMLIC		·
0000		-	46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE	NI A	OppenheimerFunds, Inc.	Management		MMLIC		·
0000		-	47-3676235				Oppenheimer Global Multi-Asset Growth Fund	DE	NI A	OppenheimerFunds, Inc.	Management		MMLIC		·
		-	47-1714929				Oppenheimer Global Multi-Asset Income Fund	DE	NI A	OppenheimerFunds, Inc.	Management		MMLIC		·
0000		-					Oppenheimer Global Value Equity UCITS	IRL	NI A	OppenheimerFunds, Inc.	Management		MMLIC		·
			L				Oppenheimer International Growth & Income		l	<u> </u>	l		l		
		-	81-3136071				Fund	DE	NI A	OppenheimerFunds, Inc	Management		MMLIC		·
			l				Oppenheimer Macquarie Global Infrastructure		l	<u> </u>	l		l		
0000		-	81-1080638 47-3987967				Fund	DE DE	NIA	OppenheimerFunds, Inc.	Management		MMLIC		·
0000				1	1	1				OppenheimerFunds, Inc.	Management				1

Asterisk	Explanation
1	
2 Debt investors own 3.6% and includes only Great Lakes III, L.P.	
3Partnership investors own 99% and include Babson Capital Loan Strategies Fund, L.P.	
4 Debt investors own 8.7% and includes only Babson Capital Loan Strategies Fund, L.P.	
5 Debt investors own 4.3% and includes only Great Lakes III, L.P.	
6 Debt investors own 5.8% and includes only Great Lakes III, L.P.	
7 Debt investors own 2.0% and includes only Great Lakes III, L.P.	
8	

	PART 2 - SUMMARY OF INSURER'S TRANSACTIONS WITH ANY AFFILIATES											
1	2	3	4	5	6	7 Income/	8	9	10	11	12	13
					Purchases, Sales or Exchanges of	(Disbursements) Incurred in Connection with		Income/		Any Other Material		Reinsurance Recoverable/
NAIC					Loans, Securities, Real Estate,	Guarantees or Undertakings for	Management	(Disbursements) Incurred Under		Activity Not in the Ordinary Course of		(Payable) on Losses and/or
Company Code	ID Number	Names of Insurers and Parent, Subsidiaries or Affiliates	Shareholder Dividends	Capital Contributions	Mortgage Loans or Other Investments	the Benefit of any Affiliate(s)	Agreements and Service Contracts	Reinsurance Agreements	*	the Insurer's Business	Totals	Reserve Credit Taken/(Liability)
65935		Massachusetts Mutual Life Insurance Company (MMLIC)	432,393,551	(1,043,240,811)	(504,546,455)						(1,115,393,715)	(45,461,043)
93432	06-1041383	C.M. Life Insurance Company	134,636	14,276,453	(37, 192, 545)						(22,781,456)	39, 165, 290
	43-0581430	MML Bay State Life Insurance Company										6,295,753
		MassMutual Asset Finance LLC			541,739,000						541,739,000	
		MassMutual Holding LLC	(429,741,302)	889,189,662							459,448,360	
		CREA Madison Member LLC		136,493,339							136,493,339	
		Barings Global Energy Infrastructure Fund		101,000,000							101,000,000	
	04-1590850	Berkshire Way LLC		100,000,000							100,000,000	
		Remington L&W Holdings LLC		64,666,667							64,666,667	
	04-1590850	Budapester Strasse LLC		56,596,310							56,596,310	
		CREA 330 Third LLC		35,220,859							35,220,859	
	81-1552222	Willowwood Lakeside Master LLC		28, 183, 405							28, 183, 405	
	98-1332447	Barings Real Estate European Value Add I										
		SCSp		23,392,680							23,392,680	
	36-4823011	50 Liberty LLC		21,879,469				***************************************			21,879,469	
	95–4207717	Cornerstone California Mortgage Fund I LLC		21,213,331							21,213,331	
		MML Special Situations Investor LLC		21,044,887							21.044.887	
	45-2632610	Cornerstone Permanent Mortgage Fund		20,218,081							20.218.081	
		Barings/LAZ Parking Fund LP		19,913,541							19,913,541	
		MSI Financial Services, Inc.		15,000,000							15.000.000	
		CREA FMF Nashville LLC		14,220,000							14,220,000	
	10 1007001	Babson CLO Investment Partners GP, LLC		14,039,855							14,039,855	
	46-5347643	MMI/Hines Harrison LLC		10,668,585							10,668,585	
		UK LIW Member LLC		10,399,197							10,399,197	
		CRA Aircraft Holdings LLC		9,600,000							9.600.000	
	04-1590850	MML Mezzanine Investor III, LLC		9,363,524							9,363,524	
		MM Chatham Office LLC		8,998,122							8,998,122	
		One Harbor Shore LLC		8,107,279							8,107,279	
	47-1993493	Waterloo London Holdings LLC		6.616.970							6,616,970	
		Babson Global Credit Fund (Lux) SCSp,		, , ,							, ,	
		SIACV-SIF		5,285,559							5,285,559	
		Jefferies Finance LLC		5,118,924							5, 118, 924	
		Barings European Core Property Fund SCSp		4,555,878							4,555,878	
		Sweet Tree Holdings 1, LLC		3,831,831							3,831,831	
	27-2977720	Sawgrass Village Shopping Center LLC		3,673,031							3,673,031	
	81-2244465	Chassis Acquisition Holding LLC		3,000,000							3,000,000	
	46-4077059	MM Woodfield Martingale LLC		2,426,785				ļ		 	2,426,785	
	45-5257904	21 West 86 LLC		2,250,000							2,250,000	
		Red Lake Ventures, LLC		1,889,394							1,889,394	
		12-18 West 55th Street Predevelopment,										
	Ī	LLC		1,411,584				L	I	1	1,411,584	

		PARI 2	- SUMMAF	RY OF INS	SURER'S	IRANSAC	JIIONS W	IIH ANY /	AFFIL	IAIES		
1 NAIC	2	3	4	5	Purchases, Sales or Exchanges of Loans, Securities, Real Estate.	7 Income/ (Disbursements) Incurred in Connection with Guarantees or Undertakings for	8 Management	9 Income/ (Disbursements) Incurred Under	10	Any Other Material Activity Not in the Ordinary Course of	12	13 Reinsurance Recoverable/ (Payable) on Losses and/or
Company Code	ID Number	Names of Insurers and Parent, Subsidiaries or Affiliates	Shareholder Dividends	Capital Contributions	Mortgage Loans or Other Investments	the Benefit of any Affiliate(s)	Agreements and Service Contracts	Reinsurance Agreements	*	the Insurer's Business	Totals	Reserve Credit Taken/(Liability)
		CML Special Situations Investor LLC		1,343,291							1,343,291	
	06-1041383	CML Mezzanine Investor III, LLC		1,040,624							1,040,624	
	46-5432619	Cornerstone Real Estate Fund X LP		939,485							939,485	
		Solar Acquisition Holding, LLC		800,416							800,416	
		Ten Fan Pier Boulevard LLC		714,139							714,139	
		Braemar Energy Ventures I, L.P		525,298							525,298	
	46-3122029	WeHo Domain LLC		335,250							335,250	
	56-2630592	Cornerstone Fort Pierce Development LLC		241,898							241,898	
	47-2642354	Alchemy Copyrights, LLC		239,840							239,840	
	45-4606547	UK LIW Manager LLC		105,042							105,042	
	47-3055009	Milestone Acquisition Holding, LLC		32,075							32,075	
	95-4207717	Cornerstone California Mortgage Fund II										
		LLC		19,038							19,038	
		Infinity SCD Ltd		14,836							14,836	
	98-0536233	Benton Street Partners I, L.P.		12,698							12,698	
	26-4441097	WP-SC, LLC		840							840	
	81-3000420	MM Debt Participations LLC		430							430	
	04-3584140	MassMutual Select Small Company Value										
		Fund	(1,325)								(1,325)	
	45-1618222	MassMutual RetireSMART Growth Fund	(1,357)								(1,357)	
	26-3229251	MassMutual Premier Strategic Emerging	(4.500)								(4.500)	
	45 4040040	Markets FundMassMutual RetireSMART Moderate Growth	(1,520)								(1,520)	
	45-1618046		(4.750)								(4.750)	
	45 4040000	Fund	(1,758)								(1,758)	
	45-1618262 46-4257056	MassMutual RetireSMART Moderate Fund	(1,896)(1,944)								(1,896)	
	45-1618155	MML Series International Equity Fund	(2.095)		***************************************	***************************************					(2.095)	
	47-3529636	MML Series II Dynamic Bond Fund	(2,757)								(2,095)	
	47-3529636	MassMutual Select Mid-Cap Value Fund	(2,757)								(2,757)	
	51-0529328	MassMutual Premier Main Street Fund	(3,371)								(3,371)	
	04-3277550	MassMutual Premier Value Fund	(4,654)								(4,654)	
	14-1980900	MassMutual Fremmer value Fund MassMutual Select Diversified	(4,054)								(4,034)	
	14-1300300	International Fund	(4.746)								(4,746)	
	47-3559064	MML Series II Special Situations Fund	(4,740)								(4,967)	
	02-0769954	MassMutual Select Small Capital Value	(4,307)								(4,307)	
	02 0700004	Equity Fund	(5.944)								(5.944)	
	04-3513019	MassMutual Select Large Cap Value Fund	(6,816)								(6,816)	
	01-0821120	MassMutual Select Diversified Value Fund	(6,877)							<u> </u>	(6,877)	
	04-3512593		(0,011)								(0,077)	
			(14,535)								(14,535)	
	47-3517233	MML Series II Asset Momentum Fund	(15,765)								(15,765)	
	55 17 200	Babson Capital Emerging Markets Local									(10,700)	
		Debt Fund	(21,472)]		(21,472)	
	46-3289207	MassMutual RetireSMART 2055 Fund	(24.843)								(24,843)	

		PARI 2	- SUMMAF	RY OF INS	OUKER'S	IKANSAC	HONS W	IIH ANY /	AFFIL	IA I ES		
NAIC Company Code	2 ID Number	3 Names of Insurers and Parent, Subsidiaries or Affiliates	4 Shareholder Dividends	5 Capital Contributions	Purchases, Sales or Exchanges of Loans, Securities, Real Estate, Mortgage Loans or Other Investments	7 Income/ (Disbursements) Incurred in Connection with Guarantees or Undertakings for the Benefit of any Affiliate(s)	8 Management Agreements and Service Contracts	9 Income/ (Disbursements) Incurred Under Reinsurance Agreements	10	Any Other Material Activity Not in the Ordinary Course of the Insurer's Business	12 Totals	Reinsurance Recoverable/ (Payable) on Losses and/or Reserve Credit Taken/(Liability)
		Baring Global Dynamic Asset Allocation										
		Fund		(32,479)							(32,479)	
		Babson Capital US High Yield Bond Fund	(49, 196)								(49, 196)	
		Cornerstone Permanent Mortgage Fund II		(60,750)							(60,750)	
		Baring International Small Cap Equity		(05 -00)							(05 500)	
		Fund		(65,788)							(65,788)	
	04-1590850	CHC/RFP VI Core LLC	(440.070)	(67,955)							(67,955)	
	47-3544629	MML Series II Equity Rotation Fund	(143,970)					 		 	(143,970)	
		Babson Capital Emerging Markets Corporate Bond Fund	(040 054)						1		(040,054)	
		Baring Focused EAFE Equity Fund	(213,251)	(226,213)							(213,251) (226,213)	
	35-2531693	Cornerstone Permanent Mortgage Fund III		(226,213)							(226,213)	
	47-5326235	MassMutual RetireSMART 2060 Fund	(549.481)	(293,000)							(295,600)	
	04-3722906	Tower Square Capital Partners, L.P.	(349,401)	(617,700)							(617,700)	
	20-3347091	Fan Pier Development LLC		(727,788)							(727,788)	
	46-2344300	Intermodal Holdings II LLC		(819,000)							(727,700)	
		CREA/PPC Venture LLC		(996,300)							(996,300)	
		WC Aircraft Holdings US II, LLC		(1,010,220)							(1.010.220)	
		Cornerstone Hotel Income & Equity Fund II		(1,010,220)							(1,010,220)	
		LP		(1,027,376)							(1,027,376)	
		CML Mezzanine Investor L, LLC		(1,027,370)							(1,027,370)	
		Country Club Office Plaza LLC		(1, 137, 713)							(1, 137, 713)	
		Johnston Groves LLC		(1,323,713)							(1,323,713)	
		Great Lakes LLC		(1,615,899)							(1,615,899)	
		US Pharmaceutical Holdings II, LLC		(1,652,826)							(1,652,826)	
		Oppenheimer Global Real Estate Fund	(1,699,431)	(1,002,020)							(1,699,431)	
	20-4570515	Babson Mezzanine Realty Investors I	(1,000,101)	(1,750,481)							(1,750,481)	
	04-1590850	Wood Creek Venture Fund LLC		(1,804,981)							(1,804,981)	
		CREA/LYON West Gateway, LLC		(1,950,218)							(1,950,218)	
	47–3971963	Babson Investment Grade CLO Debt Fund LP		(2,206,811)							(2,206,811)	
		Timberland Forest Holding LLC		(2,239,048)							(2,239,048)	
	90-0991195	Gateway Mezzanine Partners II LP		(2,252,358)							(2,252,358)	
	06-1041383	CML Mezzanine Investor, LLC		(2,346,570)							(2,346,570)	
	30-0336246	Tower Square Capital Partners II, L.P		(2,915,365)							(2,915,365)	
	46-3880526	Farringdon London Holdings LLC		(2,918,910)							(2,918,910)	
	55-0886109	Babson Capital High Yield LLC		(2,927,937)							(2,927,937)	
	71-1018134	Great Lakes II LLC		(3,253,174)						ļ	(3,253,174)	
		Ygnatio Valley Funding		(5,438,558)							(5,438,558)	
		Washington Gateway Apartments Venture LLC						1	1		·	
				(6,971,539)							(6,971,539)	
		Cornerstone Enhanced Mortgage Fund I LP		(9,994,930)							(9,994,930)	
		Great Lakes III, L.P.		(10,009,721)							(10,009,721)	
		MML Mezzanine Investor L, LLC		(10,419,414)						ļ	(10,419,414)	
	80-0691253	Gateway Mezzanine Partners I, L.P		(10,663,727)							(10,663,727)	

SCHEDULE Y

1	2	3	4	5	6	7	8	9	10	11	12	13
						Income/						
						(Disbursements)						
					Purchases, Sales	Incurred in						Reinsurance
					or Exchanges of	Connection with		Income/		Any Other Material		Recoverable/
					Loans, Securities,	Guarantees or		(Disbursements)		Activity Not in the		(Payable) on
NAIC					Real Estate,	Undertakings for	Management	Incurred Under		Ordinary Course of		Losses and/or
Company	. ID	Names of Insurers and Parent,	Shareholder	Capital	Mortgage Loans or	the Benefit of any	Agreements and	Reinsurance		the Insurer's		Reserve Credit
Code	Number	Subsidiaries or Affiliates	Dividends	Contributions	Other Investments	Affiliate(s)	Service Contracts	Agreements	*	Business	Totals	Taken/(Liability)
	32-0160190	Tower Square Capital Partners II-A, L.P		(11,247,512)							(11,247,512)	
	36-4770946	Cornerstone High Yield Venture LP		(12,260,185)							(12,260,185)	
	27-0547156	Cornerstone Real Estate Fund VIII LP		(17,754,736)							(17,754,736)	
	35-2484550	Twenty Two Liberty LLC		(20,800,000)							(20,800,000)	
	04-1590850	MML Mezzanine Investor, LLC		(21, 119, 127)							(21, 119, 127)	
	20-4981369	Wood Creek Multi Asset Fund, L.P		(22, 162, 555)							(22, 162, 555)	
	04-1590850	MML Private Equity Fund Investor LLC		(33.346.699)							(33,346,699)	
	04-1590850	MML Mezzanine Investor II, LLC		(42.145.420)							(42,145,420)	
	01 1000000	MML Investment Advisers, LLC		(55.525.578)							(55.525.578)	
	41-2280129	Tower Square Capital Partners IIIA, L.P		(59, 156, 155)							(59, 156, 155)	
				(59, 100, 133)								
	26-1611591	Fallon Cornerstone One MPD LLC									(59,200,831)	
	37-1732913	Fern Street LLC		(64,256,845)							(64,256,845)	
	20-8856877	Somerset Special Opportunities Fund L.P		(64,716,944)							(64,716,944)	
	45-2779931	AT Mid-Atlantic Office Portfolio LLC		(80, 112, 802)							(80, 112, 802)	
9999999 Cor	trol Totals								XXX			

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

The following supplemental reports are required to be filed as part of your statement filing unless specifically waived by the domiciliary state. However, in the event that your domiciliary state waives the filing requirement, your response of WAIVED 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.

•	-	Responses
1.	MARCH FILING Will the Supplemental Compensation Exhibit be filed with the state of domicile by March 1?	YES
2.	Will the confidential Risk-based Capital Report be filed with the NAIC by March 1?	YES
3.	Will the confidential Risk-based Capital Report be filed with the state of domicile, if required, by March 1?	YES
4.	Will an actuarial opinion be filed by March 1?	YES
5.	APRIL FILING Will Management's Discussion and Analysis be filed by April 1?	YES
5.	Will Management's Discussion and Analysis be filed by April 1?	ILO
6.	Will the Life, Health & Annuity Guaranty Association Model Act Assessment Base Reconciliation Exhibit be filed with the state of domicile and the NAIC by April 1?	YES
7.	Will the Adjustment Form (if required) be filed with the state of domicile and the NAIC by April 1?	YES
8.	Will the Supplemental Investment Risks Interrogatories be filed by April 1?	YES
	JUNE FILING	VEO
9.	Will an audited financial report be filed by June 1?	YES
10.	Will Accountant's Letter of Qualifications be filed with the state of domicile and electronically with the NAIC by June 1?	YES
	AUGUST FILING	
11.	Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1?	YES
for whic	owing supplemental reports are required to be filed as part of your annual statement filing. However, in the event that your company does not transact the hast period to 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 be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of filing a "NONE" report and a bar code will be accepted in lieu of fil	e printed below. If
12.	Will Schedule SIS (Stockholder Information Supplement) be filed with the state of domicile by March 1?	NO
13.	Will the Medicare Supplement Insurance Experience Exhibit be filed with the state of domicile and the NAIC by March 1?	NO
14.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC by March 1?	NO
15.	Will the actuarial opinion on participating and non-participating policies as required in Interrogatories 1 and 2 to Exhibit 5 be filed with the state of domicile and electronically with the NAIC by March 1?	NO
16.	Will the actuarial opinion on non-guaranteed elements as required in interrogatory #3 to Exhibit 5 be filed with the state of domicile and electronically with the NAIC by March 1?	YES
17.	Will the actuarial opinion on X-Factors be filed with the state of domicile and electronically with the NAIC by March 1?	NO
18.	Will the actuarial opinion on Separate Accounts Funding Guaranteed Minimum Benefit be filed with the state of domicile and electronically with the NAIC by March 1?	NO
19.	Will the actuarial opinion on Synthetic Guaranteed Investment Contracts be filed with the state of domicile and electronically with the NAIC by March 1?	NO
20.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC by March 1?	NO
21.	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 by March 1?	NO
22.	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 by March 1?	NO
23.	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 by March 1?	NO
24.	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 by March 1?	NO
25.	Will the C-3 RBC Certifications required under C-3 Phase I be filed with the state of domicile and electronically with the NAIC by March 1?	YES
26.	Will the C-3 RBC Certifications required under C-3 Phase II be filed with the state of domicile and electronically with the NAIC by March 1?	YES

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

- Will the Actuarial Certifications Related to Annuity Nonforfeiture Ongoing Compliance for Equity Indexed Annuities be filed with the state of domicile 27 and electronically with the NAIC by March 1? Will the actuarial opinion required by the Modified Guaranteed Annuity Model Regulation be filed with the state of domicile and electronically with the 28. NAIC by March 1? NΩ 29. Will the Actuarial Certifications Related to Hedging required by Actuarial Guideline XLIII be filed with the state of domicile and electronically with the NAIC by March 1? NO. 30. Will the Financial Officer Certification Related to Clearly Defined Hedging Strategy required by Actuarial Guideline XLIII be filed with the state of N0 domicile and electronically with the NAIC by March 1? Will the Management Certification That the Valuation Reflects Management's Intent required by Actuarial Guideline XLIII be filed with the state of 31. YES domicile and electronically with the NAIC by March 1? Will the Actuarial Certification Related to the Reserves required by Actuarial Guideline XLIII be filed with the state of domicile and electronically with the NAIC by March 1? YES Will the Actuarial Certification regarding the use of 2001 Preferred Class Tables required by the Model Regulation Permitting the Recognition of Preferred Mortality Tables for Use in Determining Minimum Reserve Liabilities be filed with the state of domicile and electronically with the NAIC by 33. March 1? NΩ Will the Worker's Compensation Carve-Out Supplement be filed by March 1? 34. NO Will Supplemental Schedule O be filed with the state of domicile and the NAIC by March 1?. N0 35. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC by March 1? 36. N0 Will an approval from the reporting entity's state of domicile for relief related to the five-year rotation requirement for lead audit partner be filed electronically with the NAIC by March 1? 37. Will an approval from the reporting entity's state of domicile for relief related to the one-year cooling off period for independent CPA be filed 38. electronically with the NAIC by March 1? NΩ 39. Will an approval from the reporting entity's state of domicile for relief related to the Requirements for Audit Committees be filed electronically with the NAIC by March 1? NO. 40 Will the confidential Regulatory Asset Adequacy Issues Summary (RAAIS) required by Actuarial Opinion and Memorandum Regulation (Model 822), YES Section 7A(5) be filed with the state of domicile by March 15? **APRIL FILING** Will the Long-Term Care Experience Reporting Forms be filed with the state of domicile and the NAIC by April 1? .. N0 41 42. Will the Interest-Sensitive Life Insurance Products Report Forms be filed with the state of domicile and the NAIC by April 1?.. YES Will the Credit Insurance Experience Exhibit be filed with the state of domicile and the NAIC by April 1? 43. NO. 44. Will the Accident and Health Policy Experience Exhibit be filed by April 1?. NO 45 Will the Analysis of Annuity Operations by Lines of Business be filed with the state of domicile and the NAIC by April 1? VES Will the Analysis of Increase in Annuity Reserves During the Year be filed with the state of domicile and the NAIC by April 1? 46. YES Will the Supplemental Health Care Exhibit (Parts 1, 2 and 3) be filed with the state of domicile and the NAIC by April 1?... 47. N0 48. Will the regulator only (non-public) Supplemental Health Care Exhibit's Expense Allocation Report be filed with the state of domicile and the NAIC by N0 April 1? Will the confidential Actuarial Memorandum required by Actuarial Guideline XXXVIII 8D be filed with the state of domicile by April 30? 49. N0 50. Will the Supplemental XXX/AXXX Reinsurance Exhibit be filed with the state of domicile and the NAIC by April 1? .. NO AUGUST FILING Will Management's Report of Internal Control Over Financial Reporting be filed with the state of domicile by August 1? SEE EXPLANATION 51. Explanations: 12. Not required. This line of business is not written by the company Not required. 15. Not required. 18 Not required 19 Not required 20. 21. Not required Not required. 22 Not required 23.
- 28. This line of business is not written by the company 29. 30.

24

Not required.

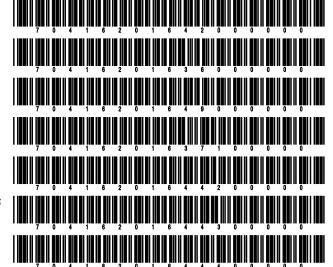
Not required.

Not required.

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

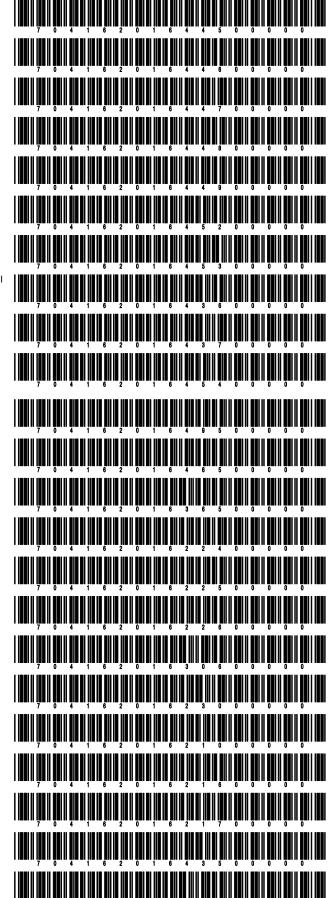
This line of business is not written by the company

- 35 This line of business is not written by the company.
- This line of business is not written by the company.
- Not required.
- 38 Not required.
- Not required
- 41. This line of business is not written by the company.
- This line of business is not written by the company. This line of business is not written by the company. 43
- 47 This line of business is not written by the company
- 48 This line of business is not written by the company
- 49. Not required. Not required
- Does not meet the threshold of \$500 million premium test.
- SIS Stockholder Information Supplement [Document Identifier 420]
- Medicare Supplement Insurance Experience Exhibit [Document Identifier 360]
- Trusteed Surplus Statement [Document Identifier 490]
- 15. Participating Opinion for Exhibit 5 [Document Identifier 371]
- Actuarial Opinion on X-Factors [Document Identifier 442] 17.
- Actuarial Opinion on Separate Accounts Funding Guaranteed Minimum Benefit [Document Identifier 443]
- Actuarial Opinion on Synthetic Guaranteed Investment Contracts [Document Identifier 444]



SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

- 20. Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]
- 21. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]
- Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]
- Actuarial Certifications Related to Annuity Nonforfeiture Ongoing Compliance for Equity Indexed Annuities [Document Identifier 452]
- 28. Modified Guaranteed Annuity Model Regulation [Document Identifier 453]
- Actuarial Certifications Related to Hedging required by Actuarial Guideline XLIII [Document Identifier 436]
- Financial Officer Certification Related to Clearly Defined Hedging Strategy required by Actuarial Guideline XLIII [Document Identifier 437]
- Actuarial Certification regarding the use of 2001 Preferred Class Tables required by the Model Regulation Permitting the Recognition of Preferred Mortality Tables for Use in Determining Minimum Reserve Liabilities [Document Identifier 454]
- 34. Workers' Compensation Carve-Out Supplement [Document Identifier 495]
- 35. Supplemental Schedule O [Document Identifier 465]
- 36. Medicare Part D Coverage Supplement [Document Identifier 365]
- 37. Relief from the five-year rotation requirement for lead audit partner [Document Identifier 224]
- Relief from the one-year cooling off period for independent CPA [Document Identifier 225]
- 39. Relief from the Requirements for Audit Committees [Document Identifier 226]
- 41. Long-Term Care Experience Reporting Forms [Document Identifier 306]
- 43. Credit Insurance Experience Exhibit [Document Identifier 230]
- 44. Accident and Health Policy Experience Exhibit [Document Identifier 210]
- 47. Supplemental Health Care Exhibit (Parts 1, 2 and 3) [Document Identifier 216]
- 48. Supplemental Health Care Exhibit's Expense Allocation Report [Document Identifier 217]
- Actuarial Memorandum Required by Actuarial Guideline XXXVIII 8D [Document Identifier 435]
- 50. Supplemental XXX/AXXX Reinsurance Exhibit [Document Identifier 345]



NONE

SUMMARY INVESTMENT SCHEDULE

	SUMMARY INVE	.STIVILI	41 30 1	ILDUL	Admitted Asset	ts as Reported	
		Gross Investm	ent Holdings	3	in the Annua		6
	Investment Categories	Amount	Percentage	3 Amount	Securities Lending Reinvested Collateral Amount	Total (Col. 3 + 4) Amount	Percentage
1.	_		· · · · · · · · · · · · · · · · · · ·				- creemage
	1.1 U.S. treasury securities	39,351,170	8.336	39,351,170		39,351,170	8.336
	1.2 U.S. government agency obligations (excluding mortgage-backed securities):						
	1.21 Issued by U.S. government agencies						0.000
	1.22 Issued by U.S. government sponsored agencies		0.000				0.000
		,	0.000				0.00
	1.4 Securities issued by states, territories, and possessions and political subdivisions in the U.S. :		0.000				0.000
	1.41 States, territories and possessions general obligations 1.42 Political subdivisions of states, territories and possessions and political subdivisions general obligations						0.000
	1.43 Revenue and assessment obligations				ļ		0.000
	1.44 Industrial development and similar obligations		0.000				0.000
	Mortgage-backed securities (includes residential and commercial MBS):						
	1.51 Pass-through securities:	0.000	0.004	0.050		0.050	0.004
	1.511 Issued or guaranteed by GNMA 1.512 Issued or guaranteed by FNMA and FHLMC					6,653	0.001
	1.512 issued of guaranteed by FNMA and FILMC						23.372
	1.52 CMOs and REMICs:						
	1.521 Issued or guaranteed by GNMA, FNMA, FHLMC or VA	66 , 143	0.014	66 , 143		66 , 143	0.014
	1.522 Issued by non-U.S. Government issuers and collateralized by mortgage-backed securities issued or guaranteed by agencies shown in Line 1.521		0.000				0.000
	1.523 All other	1.462.670		1,462,670			
2.	Other debt and other fixed income securities (excluding short-term):	,		,		,	
	2.1 Unaffiliated domestic securities (includes credit tenant loans and hybrid						
	securities)			96,327,306			
	2.2 Unaffiliated non-U.S. securities (including Canada)					56,269,146	11.920 1.357
3.	2.3 Affiliated securities	0,404,131	1.337	0,404,131	 	0,404,131	1.337
5.	3.1 Investments in mutual funds		0.000				0.000
	3.2 Preferred stocks:						
	3.21 Affiliated		0.000				0.00
	3.22 Unaffiliated	•	0.000				0.000
	3.3 Publicly traded equity securities (excluding preferred stocks):						
	3.31 Affiliated						0.000
	3.32 Unaffiliated	•	0.000				0.000
	3.4 Other equity securities: 3.41 Affiliated		0.000				0.000
	3.42 Unaffiliated		0.000				0.000
	3.5 Other equity interests including tangible personal property under lease:						
	3.51 Affiliated		0.000				0.00
	3.52 Unaffiliated	•	0.000				0.000
4.	Mortgage loans:						
	4.1 Construction and land development						0.00
	4.2 Agricultural			4 007 000			0.000
	4.3 Single family residential properties 4.4 Multifamily residential properties			4,007,088		4,007,088	0.849
	4.5 Commercial loans						0.000
	4.6 Mezzanine real estate loans						0.000
5.	Real estate investments:						
	5.1 Property occupied by company		0.000				0.000
	5.2 Property held for production of income (including						
	\$ of property acquired in satisfaction of						
	debt)		0.000			ļ	0.000
	5.3 Property held for sale (including \$		0.000				0.000
e	property acquired in satisfaction of debt)			95 147 773			20.156
6. 7.	Derivatives		0.000	, ,			0.000
7. 8.	Receivables for securities		0.000				0.000
9.	Securities Lending (Line 10, Asset Page reinvested collateral)					XXX	XXX
10.	Cash, cash equivalents and short-term investments			62,691,625		62,691,625	13.280
ı					İ	1	0 000
11.	Other invested assets		0.000				0.000

SCHEDULE A - VERIFICATION BETWEEN YEARS

Real Estate

1.	Book/adjusted carrying value, December 31 of prior year
2.	Cost of acquired:
	2.1 Actual cost at time of acquisition (Part 2, Column 6)
	2.2 Additional investment made after acquisition (Part 2, Column 9)
3.	Current year change in encumbrances:
	3.1 Totals, Part 1, Column 13
	3.2 Totals, Part 3, Column 11
4.	Total gain (loss) on disposals, Part 3, Column 18
5.	Deduct amounts received on disposals, Part 3, O tomn 15
6.	Total foreign exchange change in book/adjusted g van:
	6.1 Totals, Part 1, Column 15
	6.2 Totals, Part 3, Column 13
7.	Deduct current year's other than temporary impairment recognized:
	7.1 Totals, Part 1, Column 12
	7.2 Totals, Part 3, Column 10
8.	Deduct current year's depreciation:
	8.1 Totals, Part 1, Column 11
	8.2 Totals, Part 3, Column 9
9.	Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)
10.	Deduct total nonadmitted amounts
11.	Statement value at end of current period (Line 9 minus Line 10)

SCHEDULE B - VERIFICATION BETWEEN YEARS

Mortgage Loans

1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	5,847,458
2.	Cost of acquired:	
	2.1 Actual cost at time of acquisition (Part 2, Column 7)	
	2.2 Additional investment made after acquisition (Part 2, Column 8)	2,992
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	1,411
5.	Unrealized valuation increase (decrease):	
	5.1 Totals, Part 1, Column 9	
	5.2 Totals, Part 3, Column 8	
6.	Total gain (loss) on disposals, Part 3, Column 18	
7.	Deduct amounts received on disposals, Part 3, Column 15	1,832,747
8.	Deduct amortization of premium and mortgage interest points and commitment fees	12,026
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest:	
	9.1 Totals, Part 1, Column 13	
	9.2 Totals, Part 3, Column 13	
10.	Deduct current year's other than temporary impairment recognized:	
	10.1 Totals, Part 1, Column 11	
	10.2 Totals, Part 3, Column 10	
11.	Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	4,007,088
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	4,007,088
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	4,007,088

SCHEDULE BA - VERIFICATION BETWEEN YEARS

Other Long-Term Invested Assets

1.	Book/adjusted carrying value, December 31 of prior year
2.	Cost of acquired:
	2.1 Actual cost at time of acquisition (Part 2, Column 8)
	2.2 Additional investment made after acquisition (Part 2, Column 9)
3.	Capitalized deferred interest and other:
	3.1 Totals, Part 1, Column 16
	3.2 Totals, Part 3, Column 12
4.	Accrual of discount
5.	Unrealized valuation increase (decrease):
	5.1 Totals, Part 1, Column 13
	5.1 Totals, Part 1, Column 13
6.	Total gain (loss) on disposals, Part 3, Column 19
7.	Deduct amounts received on disposals, Part 3, Comm 1
8.	Deduct amortization of premium and depreciation
9.	Total foreign exchange change in book/adjusted carrying value:
	9.1 Totals, Part 1, Column 17
	9.2 Totals, Part 3, Column 14
10.	Deduct current year's other than temporary impairment recognized:
	10.1 Totals, Part 1, Column 15
	10.2 Totals, Part 3, Column 11
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)
12.	Deduct total nonadmitted amounts
13.	Statement value at end of current period (Line 11 minus Line 12)

SCHEDULE D - VERIFICATION BETWEEN YEARS

Bonds and Stocks

1.	Book/adjusted carrying value, December 31 of prior year	222,828,946
2.	Cost of bonds and stocks acquired, Part 3, Column 7	136,043,421
3.	Accrual of discount	498,623
4.	Unrealized valuation increase (decrease):	
	4.1. Part 1, Column 12(29,573)	
	4.2. Part 2, Section 1, Column 15	
	4.3. Part 2, Section 2, Column 13	
	4.4. Part 4, Column 11	(29,573)
5.	Total gain (loss) on disposals, Part 4, Column 19	128,413
6.	Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	48,766,601
7.	Deduct amortization of premium	477,316
8.	Total foreign exchange change in book/adjusted carrying value:	
	8.1. Part 1, Column 15	
	8.2. Part 2, Section 1, Column 19	
	8.3. Part 2, Section 2, Column 16	
	8.4. Part 4, Column 15	
9.	Deduct current year's other than temporary impairment recognized:	
	9.1. Part 1, Column 14	
	9.2. Part 2, Section 1, Column 17	
	9.3. Part 2, Section 2, Column 14	
	9.4. Part 4, Column 1363	9,107
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	310,216,806
11.	Deduct total nonadmitted amounts	
12.	Statement value at end of current period (Line 10 minus Line 11)	310,216,806

SCHEDULE D - SUMMARY BY COUNTRY

Long-Term Bonds and Stocks OWNED December 31 of Current Year

		Long-Term Bonds and Sto	CKS OWNED December 3		0	4
			Book/Adjusted	2	3	4
D	escription	on	Carrying Value	Fair Value	Actual Cost	Par Value of Bonds
BONDS	1.	United States		39,216,346	39,367,031	39,307,006
Governments	2.	Canada				
(Including all obligations guaranteed	3.	Other Countries				
by governments)	4.	Totals	39,357,823	39,216,346	39,367,031	39,307,006
U.S. States, Territories and Possessions						
(Direct and guaranteed)	5.	Totals				
U.S. Political Subdivisions of States, Territories and Possessions (Direct and guaranteed)	6.	Totals				
U.S. Special Revenue and Special Assessment Obligations and all Non- Guaranteed Obligations of Agencies and Authorities of Governments and				-		
their Political Subdivisions	7.	Totals	66,142	72,640	68,175	64,513
	8.	United States	, ,	,	208,945,330	208,819,667
Industrial and Miscellaneous, SVO Identified Funds and Hybrid	9.	Canada	, ,		5,952,403	5,895,000
Securities (unaffiliated)	10.	Other Countries	50,370,116	50,592,579	50,102,309	50,161,357
, ,	11.	Totals	264,388,710	266,257,392	265,000,042	264,876,024
Parent, Subsidiaries and Affiliates	12.	Totals	6,404,131	6,442,874	6,424,464	6,511,306
	13.	Total Bonds	310,216,806	311,989,252	310,859,712	310,758,849
PREFERRED STOCKS	14.	United States				
Industrial and Miscellaneous	15.	Canada				
(unaffiliated)	16.	Other Countries				
	17.	Totals				
Parent, Subsidiaries and Affiliates	18.	Totals				
	19.	Total Preferred Stocks				
COMMON STOCKS	20.	United States				
Industrial and Miscellaneous	21.	Canada				
(unaffiliated)	22.	Other Countries				
	23.	Totals				
Parent, Subsidiaries and Affiliates	24.	Totals				
	25.	Total Common Stocks				
	26.	Total Stocks			<u> </u>	
	27.	Total Bonds and Stocks	310,216,806	311,989,252	310,859,712	

5. U.S. Special Revenue & Special Assessment Obligations, etc., Non-Guaranteed

5.1 NAIC 1.

5.2 NAIC 2

5.3 NAIC 3.

5.4 NAIC 4.

5.5 NAIC 5

5.6 NAIC 6

5.7 Totals

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ANNUAL STATEMENT FOR THE YEAR 2016 OF THE MML Bay State Life Insurance Company

SCHEDULE D - PART 1A - SECTION 1

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations 11 Total Publicly 12 Total Privately 2 Over 1 Year 4 Over 10 Years 6 No Maturity Over 5 Years Col. 7 as a % of Line 10.7 Total from Col. 6 % From Col. 7 NAIC Designation 1 Year or Less Through 5 Years Through 10 Years Through 20 Years Over 20 Years Date Total Current Year Prior Year Prior Year Traded Placed (a) 1. U.S. Governments 39.354.310 2.653 .39.357.823 .54.269.462 .39.357.823 1.1 NAIC 1 .XXX. .XXX. 1.2 NAIC 2. 1.3 NAIC 3 XXX. 1.4 NAIC 4 XXX. 1.5 NAIC 5 XXX. 1.6 NAIC 6 XXX 860 39,354,310 2,653 39,357,823 54,269,462 39,357,823 1.7 Totals XXX 19.2 2. All Other Governments 2.1 NAIC 1 .XXX. 2.2 NAIC 2 XXX 2.3 NAIC 3 XXX. 2.4 NAIC 4 .XXX. 2.5 NAIC 5 XXX. 2.6 NAIC 6. XXX XXX 2.7 Totals U.S. States. Territories and Possessions etc.. Guaranteed 3.1 NAIC 1. .XXX. 3.2 NAIC 2 XXX 3.3 NAIC 3 .XXX. 3.4 NAIC 4. XXX. XXX. 3.5 NAIC 5. 3.6 NAIC 6. XXX 3.7 Totals XXX 4. U.S. Political Subdivisions of States. Territories and Possessions . Guaranteed 4.1 NAIC 1 XXX. 4.2 NAIC 2 .XXX. .XXX. 4.3 NAIC 3 4.4 NAIC 4 XXX 4.5 NAIC 5. XXX 4.6 NAIC 6. XXX 4.7 Totals XXX

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9.2 NAIC 2

9.3 NAIC 3

9.4 NAIC 4

9.5 NAIC 5.

9.6 NAIC 6

9.7 Totals

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ANNUAL STATEMENT FOR THE YEAR 2016 OF THE MML Bay State Life Insurance Company

SCHEDULE D - PART 1A - SECTION 1 (Continued)

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations 12 Total Privately 11 Total Publicly 6 No Maturity 2 Over 1 Year Over 5 Years Over 10 Years Col. 7 as a % of Total from Col. 6 % From Col. 7 NAIC Designation 1 Year or Less Through 5 Years Through 10 Years Through 20 Years Over 20 Years Date Total Current Year Line 10.7 Prior Year Prior Year Traded Placed (a) 6. Industrial & Miscellaneous (Unaffiliated) .31.311.529 44.253.586 120.529.162 .6.017.231 1.556.668 203.668.176 54.3 .82.602.776 .29.2 99.820.611 103.847.565 6.1 NAIC 1 .XXX. .44,771,714 ..22,600,051 .50,271,866 ...1,746,003 ...454,567 ..119,844,201 .140,542,993 .49.7 .67,705,887 .52,138,314 XXX. ..31.9 6.2 NAIC 2 411.196 984.716 3.438.712 2.529.021 995.496 2.443.216 6.3 NAIC 3 2.042.800 XXX. 0.9 0.9 .439,907 ...779,626 ...77,415 1,296,948 ..0.3 136,049 .0.0 1,296,948 6.4 NAIC 4 XXX. .572,624 ..140,211 ..50,002 .19,390 ...782,227 ..745,687 ..505,275 ..276,952 6.5 NAIC 5 XXX. ..0.2 .0.3 537 2,089 129 2,838 0.0 2,838 6.6 NAIC 6 XXX 77,507,507 69,818,363 171,913,290 7,782,707 2,011,235 329,033,102 87.7 226,556,526 80.1 170,327,055 158,706,047 6.7 Totals XXX 7. Hybrid Securities 7.1 NAIC 1 .XXX. .350,000 ..350,000 ..0.1 ..350,000 .350,000 7.2 NAIC 2 XXX ..0.1 7.3 NAIC 3 XXX. 7.4 NAIC 4 .XXX. 7.5 NAIC 5 XXX. 7.6 NAIC 6. XXX 350.000 350.000 0.1 350.000 0.1 350.000 7.7 Totals XXX 8. Parent, Subsidiaries and Affiliates ..7,365 .197,471 .4,904,063 .5, 113, 519 ..1,565,489 43.988 ..5,069,532 .4,621 XXX. ...1.4 .0.6 8.1 NAIC 1. 766.508 766.508 8.2 NAIC 2 XXX. 766.508 0.2 8.3 NAIC 3 XXX 8.4 NAIC 4 XXX. 8.5 NAIC 5 XXX. 0.1 524.103 XXX 524.103 77.165 0.0 524.103 8.6 NAIC 6 7,365 197,471 6,194,674 4,621 6,404,131 1,642,654 43,988 6,360,143 8.7 Totals XXX 1.7 0.6 9. SVO Identified Funds 9.1 NAIC 1 XXX XXX XXX XXX XXX XXX XXX

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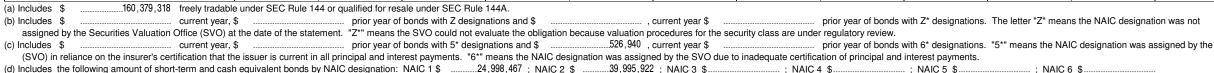
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SCHEDULE D - PART 1A - SECTION 1 (Continued)

Quality and Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Types of Issues and NAIC Designations

	Quality and	viaturity Distributi	2	wned December 3	1, at book Aujusi	6	T 7	8	no Designations	10	11	12
	'	Over 1 Year	Over 5 Years	Over 10 Years	J	No Maturity	,	Col. 7 as a % of	Total from Col. 6	% From Col. 7	Total Publicly	Total Privately
NAIC Designation	1 Year or Less	Through 5 Years	Through 10 Years	Through 20 Years	Over 20 Years	Date	Total Current Year	Line 10.7	Prior Year	Prior Year	Traded	Placed (a)
10. Total Bonds Current Year												
10.1 NAIC 1	(d)31,339,271	83,839,391	125,447,032		1,556,668		248,205,661	66.2	XXX	XXX	139,288,565	108,917,097
10.2 NAIC 2	(d)44,771,714	22,600,051	51,038,374	2,096,003	454,567		120,960,709	32.2	XXX	XXX	68,055,887	52,904,822
10.3 NAIC 3	(d)411,196	2,042,800	984,716				3,438,712	0.9	XXX	XXX	995,496	2,443,216
10.4 NAIC 4	(d)439,907	779,626	77,415				1,296,948	0.3	XXX	XXX	1,296,948	
10.5 NAIC 5	(d)572,624	140,211	50,002	19,390			(c)782,227	0.2	XXX	XXX	505,275	276,952
10.6 NAIC 6	(d) 537	2,089	524,232	83			(c) 526,941	0.1	XXX	XXX	2,838	524, 103
10.7 Totals	77,535,249	109,404,168	178, 121,771	8,138,775	2,011,235		(b)375,211,198	100.0	XXX	XXX	210,145,008	165,066,190
10.8 Line 10.7 as a % of Col. 7	20.7	29.2	47.5	2.2	0.5		100.0	XXX	XXX	XXX	56.0	44.0
11. Total Bonds Prior Year												
11.1 NAIC 1	11,482,907	72,930,110	49,451,140	4,310,961	351,145	XXX	XXX	XXX	138,526,263	49.0	103,729,187	34,797,076
11.2 NAIC 2	61,267,336	25,579,852	50,869,456	2,720,673	455,677	XXX	XXX	XXX	140,892,993	49.8	68,960,592	71,932,401
11.3 NAIC 3	2,050,967	322,043	156,012			XXX	XXX	XXX	2,529,021	0.9	479,021	2,050,000
11.4 NAIC 4	60.466	75,583	, , , , , , , , , , , , , , , , , , ,			XXX	XXX	XXX	136,049	0.0	,	136.049
11.5 NAIC 5	42.034	620 . 188	55.587	27,878		XXX	XXX	XXX	(c)745,687	0.3	516.489	229, 199
11.6 NAIC 6	47,299	2,527	27,339	,		XXX	XXX	XXX	(c) 77,165	0.0	,	77, 165
11.7 Totals	74,951,009	99,530,302	100,559,534	7,059,511	806.822	XXX	XXX	XXX	(b)282,907,179	100.0	173.685.290	109,221,889
11.8 Line 11.7 as a % of Col. 9	26.5		35.5		0.3	XXX	XXX	XXX	100.0	XXX	61.4	38.6
12. Total Publicly Traded Bonds						7001	7001	7001		7001		
12.1 NAIC 1	3,122,510	47,391,131	85,283,819	3,465,287	25,817		139,288,565	37.1	103.729.187	36.7	139,288,565	xxx
12.2 NAIC 2	2,438,225	18,764,872	44,305,161	2,093,062	454,567		68,055,887	18.1	68,960,592	24.4	68,055,887	XXX
12.3 NAIC 3	717	994,779		2,000,002			995,496	0.3	479,021	0.2	995,496	XXX
12.4 NAIC 4	439,907	779.626					1,296,948	0.3			1,296,948	XXX
12.5 NAIC 5	505,275						505,275	0.1	516,489	0.2	505,275	XXX
12.6 NAIC 6	537	2,089	129	83			2,838	0.0		y.L	2,838	XXX
12.7 Totals	6,507,172		129.666.523		480.384		210,145,008	56.0	173.685.290	61.4	210,145,008	XXX
12.8 Line 12.7 as a % of Col. 7	3.1	32.3	61.7	2.6	0.2		100.0	XXX	XXX	XXX	100.0	XXX
12.9 Line 12.7 as a % of Line 10.7, Col. 7,				2.0			100.0				100.0	
Section 10	1.7	18.1	34.6	1.5	0.1		56.0	XXX	XXX	XXX	56.0	XXX
13. Total Privately Placed Bonds	1	10.1	01.0	1.0	0.1		00.0	7000	7000	7000	00.0	7000
13.1 NAIC 1	28.216.760	36,448,260	40,163,213	2.558.012	1.530.851		108.917.097	29.0	34.797.076	12.3	XXX	108.917.097
13.2 NAIC 2	42.333.489	3,835,179	6,733,213	2.941	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		52,904,822	14.1	71.932.401	25.4	XXX	52,904,822
13.3 NAIC 3	410.479	1.048.021	984.716	ــــــــــــــــــــــــــــــــــــــ			2.443.216	0.7	2.050.000	0.7	XXX	2,443,216
13.4 NAIC 4		1,040,021					2, 770, 210	0.0	136,049	0.0	XXX	
13.5 NAIC 5	67,349	140.211	50.002	19,390			276.952	0.1	229, 199	0.1	XXX	276.952
13.6 NAIC 6		170,211	524,103	13,030			524 . 103	0.1	77.165	0.0		524, 103
13.7 Totals	71,028,077	41,471,671	48,455,248	2,580,344	1,530,851		165,066,190	44.0	109,221,889	38.6	XXX	165,066,190
13.8 Line 13.7 as a % of Col. 7			29.4	2,560,544	0.9		105,000,190		XXX		XXX	103,000,190
	43.0	Z∂. I	29.4	1.0			100.0	XXX	XXX	XXX	XXX	1100.0
13.9 Line 13.7 as a % of Line 10.7, Col. 7, Section 10	18.9		12.9		0.4		44.0	XXX	XXX	XXX	XXX	44.0



ANNUAL STATEMENT FOR THE YEAR 2016 OF THE MML Bay State Life Insurance Company SCHEDULE D - PART 1A - SECTION 2

	Matu	rity Distribution of	All Bonds Owner	d December 31. a	at Book/Adjusted	Carrying Values	by Major Type and	Subtype of Issu	es			
	1	2	3	4	5	6	7	8	9	10	11	12
		Over 1 Year	Over 5 Years	Over 10 Years		No Maturity		Col. 7 as a % of	Total from Col. 6	% From Col. 7	Total Publicly	Total Privately
Distribution by Type	1 Year or Less	Through 5 Years	Through 10 Years	Through 20 Years	Over 20 Years	Date	Total Current Year	Line 10.6	Prior Year	Prior Year	Traded	Placed
1. U.S. Governments												•
1.1 Issuer Obligations		39, 351, 170				XXX		10.5	, ,	19.2	39,351,170	
1.2 Residential Mortgage-Backed Securities	860	3, 140	2,653			XXX	6,653	0.0	7,681	0.0	6,653	
1.3 Commercial Mortgage-Backed Securities						XXX						
1.4 Other Loan-Backed and Structured Securities						XXX						
1.5 Totals	860	39,354,310	2,653			XXX	39,357,823	10.5	54,269,462	19.2	39,357,823	
2. All Other Governments												•
2.1 Issuer Obligations						XXX						
2.2 Residential Mortgage-Backed Securities						XXX						
2.3 Commercial Mortgage-Backed Securities						XXX						
2.4 Other Loan-Backed and Structured Securities						XXX						•
2.5 Totals						XXX						
3. U.S. States, Territories and Possessions, Guaranteed												
3.1 Issuer Obligations						XXX						
3.2 Residential Mortgage-Backed Securities						XXX						
3.3 Commercial Mortgage-Backed Securities						XXX						
3.4 Other Loan-Backed and Structured Securities						XXX						•
3.5 Totals						XXX						
4. U.S. Political Subdivisions of States, Territories and												
Possessions, Guaranteed												•
4.1 Issuer Obligations						XXX						
4.2 Residential Mortgage-Backed Securities						XXX						
4.3 Commercial Mortgage-Backed Securities						XXX						
4.4 Other Loan-Backed and Structured Securities						XXX						•
4.5 Totals						XXX						
5. U.S. Special Revenue & Special Assessment Obligations												
etc., Non-Guaranteed												•
5.1 Issuer Obligations						XXX						
5.2 Residential Mortgage-Backed Securities	19,517	34,024	11, 154	1,448		XXX	66 , 143	0.0	88,536	0.0	66 , 143	
5.3 Commercial Mortgage-Backed Securities						XXX						
5.4 Other Loan-Backed and Structured Securities						XXX						
5.5 Totals	19,517	34,024	11, 154	1,448		XXX	66,143	0.0	88,536	0.0	66,143	
Industrial and Miscellaneous												•
6.1 Issuer Obligations	72,486,170	30,614,075	70,744,658	3,817,920	454,567	XXX	178, 117, 390	47.5	166,639,646	58.9	95,363,702	82,753,688
6.2 Residential Mortgage-Backed Securities	716,738	1,549,073	386,092	316,867	228,210	XXX	3, 196, 979	0.9		1.3	2,645,226	551,753
6.3 Commercial Mortgage-Backed Securities	2, 133, 248	13,853,353	67, 197, 824			XXX	83, 184, 425	22.2	46,403,068	16.4	67,821,627	15,362,798
6.4 Other Loan-Backed and Structured Securities	2,171,351	23,801,862	33,584,715	3,647,919	1,328,458	XXX	64,534,305	17.2		3.5	4,496,499	60,037,806
6.5 Totals	77,507,507	69,818,363	171,913,289	7,782,706	2,011,235	XXX	329,033,099	87.7	226,556,526	80.1	170,327,055	158,706,045
7. Hybrid Securities												
7.1 Issuer Obligations				350,000		XXX	350,000	0.1	350,000	0.1	350,000	
7.2 Residential Mortgage-Backed Securities				, , , , , , , , , , , , , , , , , , ,		XXX	·		, , , , , , , , , , , , , , , , , , ,			
7.3 Commercial Mortgage-Backed Securities						XXX						
7.4 Other Loan-Backed and Structured Securities			1			XXX						
7.5 Totals				350,000		XXX	350,000	0.1	350,000	0.1	350,000	
8. Parent, Subsidiaries and Affiliates									·			
8.1 Issuer Obligations						XXX						
8.2 Residential Mortgage-Backed Securities	7,365	67,577	33,958	4,621		XXX	113,520	0.0	135,473	0.0	43,988	69,532
8.3 Commercial Mortgage-Backed Securities	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , ,		, == :		XXX						
8.4 Other Loan-Backed and Structured Securities		129,894	6,160,717			XXX	6,290,611	1.7	1,507,181	0.5		6,290,611
8.5 Totals	7.365	197.471	6. 194.674	4.621		XXX	6.404.131	1.7		0.6	43.988	6.360.143
	7,000	107,771	3, 101,014	1,021	1	7001	3, 107, 101	1.7	1,512,007	0.0	10,000	0,000,170

SCHEDULE D - PART 1A - SECTION 2 (Continued) Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Type and Subtype of Issues

Maturity Distribution of All Bonds Owned December 31, at Book/Adjusted Carrying Values by Major Type and Subtype of Issues												
	1	2	3	4	5	6	7	8	9	10	11	12
		Over 1 Year	Over 5 Years	Over 10 Years		No Maturity		Col. 7 as a % of	Total from Col. 6	% From Col. 7	Total Publicly	Total Privately
Distribution by Type	1 Year or Less	Through 5 Years	Through 10 Years	Through 20 Years	Over 20 Years	Date	Total Current Year	Line 10.6	Prior Year	Prior Year	Traded	Placed
9. SVO Identified Funds												I
9.1 Exchange Traded Funds Identified by the SVO	XXX	XXX	XXX	XXX	XXX				XXX	XXX		
9.2 Bond Mutual Funds Identified by the SVO	XXX	XXX	XXX	XXX	XXX				XXX	XXX		I
9.3 Totals	XXX	XXX	XXX	XXX	XXX				XXX	XXX		i .
10. Total Bonds Current Year												
10.1 Issuer Obligations	72,486,170	69,965,245	70,744,658	4, 167, 920	454,567	XXX	217,818,559	58 . 1	XXX	XXX	135,064,872	82,753,688
10.2 Residential Mortgage-Backed Securities	744,480	1,653,814	433,856	322,935	228,210	XXX	3,383,295	0.9	XXX	XXX	2,762,010	621,285
10.3 Commercial Mortgage-Backed Securities	2, 133, 248	13,853,353	67, 197, 824	, , , , , , , , , , , , , , , , , , ,	·	XXX	83, 184, 425	22.2	XXX	XXX	67,821,627	15,362,798
10.4 Other Loan-Backed and Structured Securities	2, 171, 351	23,931,756	39,745,432	3,647,919	1,328,458	XXX	70,824,916	18.9	XXX	XXX	4,496,499	
10.5 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX				XXX	XXX		I
10.6 Totals	77,535,248	109,404,168	178, 121,770	8, 138, 774	2,011,235			100.0	XXX	XXX	210, 145,008	165,066,188
10.7 Line 10.6 as a % of Col. 7	20.7	29.2	47.5	2.2	0.5		100.0	XXX	XXX	XXX	56.0	44.0
11. Total Bonds Prior Year												
11.1 Issuer Obligations	71,407,304	81, 133, 826	62.169.976	6.084.644	455.677	XXX	XXX	XXX	221, 251, 427	78.2	138.773.635	82.477.792
11.2 Residential Mortgage-Backed Securities	710,945	1,958,421	507,783	299,546	344,294	XXX	XXX	XXX	3,820,989	1.4	3,038,315	782,673
11.3 Commercial Mortgage-Backed Securities	2,002,222	7,486,597	36,914,250	, , , , , , , , , , , , , , , , , , , ,	, ,	XXX	XXX	XXX	46,403,068	16.4	31,018,803	15,384,265
11.4 Other Loan-Backed and Structured Securities	830,539	8,951,458	967,525	675,321	6,851	XXX	XXX	XXX	11,431,695	4.0	854,537	10,577,159
11.5 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
11.6 Totals	74,951,009	99,530,302	100,559,534	7,059,511	806,822	XXX	XXX	XXX	282,907,179	100.0	173,685,289	109,221,889
11.7 Line 11.6 as a % of Col. 9	26.5	35.2	35.5	2.5	0.3	XXX	XXX	XXX	100.0	XXX	61.4	38.6
12. Total Publicly Traded Bonds												
12.1 Issuer Obligations	3,470,277	63,412,447	63,562,601	4, 164, 979	454,567	XXX	135,064,872	36.0	138,773,635	49.1	135,064,872	XXX
12.2 Residential Mortgage-Backed Securities	674,387	1,424,321	367,924	295,378		XXX	2,762,010	0.7	3,038,315	1.1	2,762,010	XXX
12.3 Commercial Mortgage-Backed Securities	2, 109, 456	1,958,517	63,753,654			XXX	67,821,627	18.1	31,018,803	11.0	67,821,627	XXX
12.4 Other Loan-Backed and Structured Securities	253,052	1, 137, 211	1,982,344	1,098,074	25,817	XXX	4,496,499	1.2	854,537	0.3	4,496,499	XXX
12.5 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX				XXX	XXX		XXX
12.6 Totals	6,507,172	67,932,497	129,666,523	5,558,431	480,384		210,145,008	56.0	173,685,289	61.4	210, 145,008	XXX
12.7 Line 12.6 as a % of Col. 7	3.1	32.3	61.7	2.6	0.2		100.0	XXX	XXX	XXX	100.0	XXX
12.8 Line 12.6 as a % of Line 10.6, Col. 7, Section 10	1.7	18.1	34.6	1.5	0.1		56.0	XXX	XXX	XXX	56.0	XXX
13. Total Privately Placed Bonds												
13.1 Issuer Obligations	69,015,892	6,552,798	7, 182,057	2,941		XXX	82,753,688	22.1	82,477,792	29.2	XXX	82,753,688
13.2 Residential Mortgage-Backed Securities	70,093	229,493	65,933	27,557	228,210	XXX	621,285	0.2	782,673	0.3	XXX	621,285
13.3 Commercial Mortgage-Backed Securities	23,792	11,894,836	3,444,170	,		XXX	15,362,798	4.1	15,384,265	5.4	XXX	15,362,798
13.4 Other Loan-Backed and Structured Securities	1,918,299	22,794,544	37,763,088	2,549,845	1,302,641	XXX	66,328,417	17.7	10,577,159	3.7	XXX	66,328,417
13.5 SVO Identified Funds	XXX	XXX	XXX	XXX	XXX				XXX	XXX	XXX	İ
13.6 Totals	71,028,076	41,471,671	48,455,247	2,580,343	1,530,851		165,066,188	44.0	109,221,889	38.6	XXX	165,066,188
13.7 Line 13.6 as a % of Col. 7	43.0	25.1	29.4	1.6	0.9		100.0	XXX	XXX	XXX	XXX	100.0
13.8 Line 13.6 as a % of Line 10.6, Col. 7, Section 10	18.9	11.1	12.9	0.7	0.4		44.0	XXX	XXX	XXX	XXX	44.0

SCHEDULE DA - VERIFICATION BETWEEN YEARS

Short-Term Investments

Short-Term investing	- IIIS				
	1	2	3	4	5
				Other Short-term	Investments in Parent,
	Total	Bonds	Mortgage Loans	Investment Assets (a)	Subsidiaries and Affiliates
1. Book/adjusted carrying value, December 31 of prior year	4,995,929	4,995,929			
1. book/adjusted carrying value, becember 31 or prior year					
		=			
Cost of short-term investments acquired	8,472,961	8,472,961			
Accrual of discount	29.971	29.971			
5. Action of dissouri					
4. Unrealized valuation increase (decrease)					
Total gain (loss) on disposals	308	308			
- · · · · · · · · · · · · · · · · · · ·					
	13,499,169	13.499.169			
Deduct consideration received on disposals	13,499,109	13,499,109			
7. Deduct amortization of premium					
·					
O Tatal foreign analysis as a bound in bould disable describe units					
Total foreign exchange change in book/adjusted carrying value					
Deduct current year's other than temporary impairment recognized					
10. Book adjusted corning value at and of current period // ince 1, 2, 2, 4, 5, 6, 7, 9, 0)					
10. Book adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	 			<u> </u>	
11. Deduct total nonadmitted amounts				ļ	
12. Statement value at end of current period (Line 10 minus Line 11)					
12. Otalement value at end of current period (Line 10 minus Line 11)					

⁽a) Indicate the category of such assets, for example, joint ventures, transportation equipment:

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards **NONE**

Schedule DB - Part B - Verification - Futures Contracts **NONE**

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open NONE

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open **NONE**

Schedule DB - Verification - Book/Adjusted Carrying Value, Fair Value and Potential Exposure of Derivatives

NONE

SCHEDULE E - VERIFICATION BETWEEN YEARS

(Cash Equivalents) 3 Other (a) Total Bonds 1. Book/adjusted carrying value, December 31 of prior year .55,082,304 ..55,082,304 ..1, 147, 813, 746 ...1, 147, 813, 746 Cost of cash equivalents acquired323,001 .323,001 3. Accrual of discount Unrealized valuation increase (decrease) <u>(</u>464) (464) 5. Total gain (loss) on disposals ...1, 138, 224, 1971, 138, 224, 197 6. Deduct consideration received on disposals 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) .. .64,994,390 .64,994,390 Deduct total nonadmitted amounts

64,994,390

64,994,390

^{12.} Statement value at end of current period (Line 10 minus Line 11)

(a) Indicate the category of such assets, for example, joint ventures, transportation equipment: