## **QUARTERLY STATEMENT**

**OF THE** 

**C.M.** Life Insurance Company

TO THE

**Insurance Department** 

**OF THE** 

**STATE OF** 

FOR THE QUARTER ENDED MARCH 31, 2015

LIFE AND ACCIDENT AND HEALTH

2015



LIFE AND ACCIDENT AND HEALTH COMPANIES - ASSOCIATION EDITION

## **QUARTERLY STATEMENT**

AS OF MARCH 31, 2015 OF THE CONDITION AND AFFAIRS OF THE

NA		I. Life Insural  NAIC Company Coc	•	<b>ny</b> ID Number 06-1041383
Organized under the Laws of	(Current)	Prior)	State of Domicile or Port of E	
Country of Domicile	Commo	United States of		
, <u>—</u>	04/05/1090	Officed States of		05/42/4004
	04/25/1980		Commenced Business	
Statutory Home Office	100 Bright Meadov (Street and No		(City or	Enfield , CT, US 06082 Town, State, Country and Zip Code)
Main Administrative Office		1295 State S	Street	
	Springfield , MA, US 01111	(Street and N	umber)	413-788-8411
(City o	r Town, State, Country and Zip (	Code)	(A	rea Code) (Telephone Number)
Mail Address	1295 State Stree	<u> </u>		Springfield , MA, US 01111
	(Street and Number or P	O. Box)	(City or	Town, State, Country and Zip Code)
Primary Location of Books an	d Records	1295 State		
	Springfield , MA, US 01111	(Street and N	umber)	413-788-8411
(City o	r Town, State, Country and Zip (	Code)	(A	rea Code) (Telephone Number)
Internet Website Address		www.massmu	tual.com	
Statutory Statement Contact		A. Peatman	,	413-744-6327
	tpeatman@massmutual.com	(Name)		(Area Code) (Telephone Number) 413-226-4086
	(E-mail Address)	· -		(FAX Number)
		OFFICE	RS	
President and Chief Executive Officer	Roger Williar	n Crandall	Treasurer	Todd Garett Picken
•	Pia Denise I			Isadore Jermyn
		OTHE Mark Douglas Roellig Exec	utive Vice President and	
	ncial Officer  Executive Vice President	General Co	ounsel	Michael Robert Fanning Executive Vice President
	Crandall - Chairman Iglas Roellig	DIRECTORS OR Michael Robe		Michael Thomas Rollings
_				
State of County of	Massachusetts Hampden	SS:		
all of the herein described as statement, together with relaticondition and affairs of the sa in accordance with the NAIC rules or regulations require respectively. Furthermore, the	seets were the absolute propertied exhibits, schedules and explaid reporting entity as of the reportant Annual Statement Instructions differences in reporting not refer scope of this attestation by the	y of the said reporting entity, frantions therein contained, annuting period stated above, and of and Accounting Practices and I lated to accounting practices the described officers also include.	ee and clear from any liens exed or referred to, is a full a of its income and deductions Procedures manual except to and procedures, according tes the related correspondin-	orting entity, and that on the reporting period stated above, or claims thereon, except as herein stated, and that this and true statement of all the assets and liabilities and of the therefrom for the period ended, and have been completed to the extent that: (1) state law may differ; or, (2) that state to the best of their information, knowledge and belief, g electronic filing with the NAIC, when required, that is an be requested by various regulators in lieu of or in addition
Roger William (		Pia Denise FI Secreta	ry	Todd Garett Picken Treasurer
Subscribed and sworn to before day of			a. Is this an original filing b. If no,  1. State the amendme 2. Date filed	ent number

## **ASSETS**

		<u> </u>	Current Statement Date	<u> </u>	4
		1	2	3 Net Admitted Assets	December 31 Prior Year Net
	Danda	Assets 4,373,003,126	Nonadmitted Assets	(Cols. 1 - 2) 4,373,003,126	Admitted Assets 4,305,354,053
	Bonds	4,373,003,120		4,373,003,120	4,303,334,033
2.	Stocks: 2.1 Preferred stocks	20 622 570		30,633,570	20 070 272
		227,400,548		227,400,548	
0		227,400,346		221,400,546	221,341,409
3.	Mortgage loans on real estate: 3.1 First liens	051 01/ 161		951,814,161	044 200 174
				931,614,161	944,390,174
4					
	Real estate: 4.1 Properties occupied by the company (less \$				
	encumbrances)				
	4.2 Properties held for the production of income (less				
	\$encumbrances)				24 171 011
	·				24, 171,011
	4.3 Properties held for sale (less \$				
	encumbrances)				
5.	Cash (\$(3,744,749)), cash equivalents				
	(\$177,831,953 ) and short-term				
	investments (\$25,995,191 )				
6.	Contract loans (including \$ premium notes)				
7.	Derivatives			688,405,851	
8.	Other invested assets				
9.	Receivables for securities			262,968,763	165,833,019
10.	Securities lending reinvested collateral assets				
11.	Aggregate write-ins for invested assets				
	Subtotals, cash and invested assets (Lines 1 to 11)	7, 130, 188, 702	3,372,013	7,126,816,689	6,797,120,880
13.	Title plants less \$ charged off (for Title insurers				
	only)				
14.	Investment income due and accrued	96, 198, 287	90,092	96, 108, 195	94,827,363
15.	Premiums and considerations:				
	15.1 Uncollected premiums and agents' balances in the course of collection	138,477	740	137,737	764,444
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)				(28,342,570)
	15.3 Accrued retrospective premiums				
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers	18,609,185		18,609,185	13,700,007
	16.2 Funds held by or deposited with reinsured companies				
	16.3 Other amounts receivable under reinsurance contracts				9,857,043
17.	Amounts receivable relating to uninsured plans				
	Current federal and foreign income tax recoverable and interest thereon				
	Net deferred tax asset				
	Guaranty funds receivable or on deposit				
20.	Electronic data processing equipment and software				
21.	Furniture and equipment, including health care delivery assets				
	(\$				
	Net adjustment in assets and liabilities due to foreign exchange rates			3,740	
	Receivables from parent, subsidiaries and affiliates			289,654	292,878
	Health care (\$ ) and other amounts receivable				
	Aggregate write-ins for other than invested assets	100,341	31,270	69,071	3, 133, 239
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	7,323,436,275	49,760,091	7,273,676,184	6,929,649,680
27	From Separate Accounts, Segregated Accounts and Protected Cell	7,020,100,270	10,700,001	1,210,010,101	0,020,010,000
21.	Accounts	1,886,551,547		1,886,551,547	1,862,814,903
28.	Total (Lines 26 and 27)	9,209,987,822	49,760,091	9,160,227,731	8,792,464,583
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)				
	Miscellaneous	72,032	2,961	69,071	3,121,732
	Cash advanced to agents				
2502.	Real estate notes recivable				
	Summary of remaining write-ins for Line 25 from overflow page				,
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	100,341		69.071	3,133,239
೭೮೮೮.	Totalo (Lineo 2001 tillough 2000 pluo 2000)(Line 20 above)	100,041	31,270	03,071	0,100,209

## **LIABILITIES, SURPLUS AND OTHER FUNDS**

	LIABILITIES, SURPLUS AND OTHER PO	1100	
		1 Current	2 December 31
		Statement Date	Prior Year
1.	Aggregate reserve for life contracts \$	4 407 450 007	4 505 000 000
2.	(including \$ Modco Reserve)		
3.	Liability for deposit-type contracts (including \$ Modco Reserve)	62,614,332	55,694,610
4.	Contract claims:		
	4.1 Life		
_	4.2 Accident and health		
5. 6.	Policyholders' dividends \$ and coupons \$ due and unpaid		
0.	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	4,296	8,146
9.	Contract liabilities not included elsewhere: 9.1 Surrender values on canceled contracts		
	9.2 Provision for experience rating refunds, including the liability of \$ accident and health		
	experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health		
	Service Act		
	9.3 Other amounts payable on reinsurance, including \$ assumed and \$		
	ceded		
10	9.4 Interest Maintenance Reserve	99,574,139	84,353,592
10.	Commissions to agents due or accrued-life and annuity contracts \$ , accident and health \$ , and deposit-type contract funds \$		
11.	Commissions and expense allowances payable on reinsurance assumed		
12.	General expenses due or accrued		
	Transfers to Separate Accounts due or accrued (net) (including \$(7,500,230) accrued for expense		
	allowances recognized in reserves, net of reinsured allowances)	(7,810,347)	(7,797,556)
14.	Taxes, licenses and fees due or accrued, excluding federal income taxes	1,697,989	1,854,559
	Current federal and foreign income taxes, including \$13, 147,641 on realized capital gains (losses)		
	Net deferred tax liability		
16. 17.	Amounts withheld or retained by company as agent or trustee	413 766	503 659
18.	Amounts held for agents' account, including \$ agents' credit balances		
19.	Remittances and items not allocated	(10,071,510)	(6,967,532)
20.	Net adjustment in assets and liabilities due to foreign exchange rates	2,507	2,507
21.	Liability for benefits for employees and agents if not included above		
22.	Borrowed money \$ and interest thereon \$		
23.	Dividends to stockholders declared and unpaid	-	
24.	Miscellaneous liabilities: 24.01 Asset valuation reserve	87 918 957	78 976 384
	24.02 Reinsurance in unauthorized and certified (\$		
	24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
	24.04 Payable to parent, subsidiaries and affiliates	10,933,973	11,912,338
	24.05 Drafts outstanding		
	24.06 Liability for amounts held under uninsured plans		
	24.07 Funds held under coinsurance 24.08 Derivatives		
	24.09 Payable for securities		
	24.10 Payable for securities lending		
	24.11 Capital notes \$		
25.	Aggregate write-ins for liabilities		371,095,059
26.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)		5,624,895,772
27.	From Separate Accounts Statement		
28.	Total liabilities (Lines 26 and 27)	7,780,700,246	7,487,710,675
29. 30.	Common capital stock		
31.	Preferred capital stock		
32.	Surplus notes		
33.	Gross paid in and contributed surplus		
34.	Aggregate write-ins for special surplus funds		
35.	Unassigned funds (surplus)	926,751,277	851,977,700
36.	Less treasury stock, at cost:		
	36.1 shares common (value included in Line 29 \$		
37.	Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)		1,302,253,908
38.	Totals of Lines 29, 30 and 37		1,304,753,908
39.	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	9,160,227,731	8,792,464,583
	DETAILS OF WRITE-INS		
2501.	Repurchase agreements and interest expense		
2502.	Derivative collateral		55,293,457
2503.	Derivative interest expense		74,735,311
2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page	516,249,936	1,335,841
3101.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	· · · · ·	
3101.			
3103.			
3198.	Summary of remaining write-ins for Line 31 from overflow page		
3199.	Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)		
3401.			
3402.			
3403.	Summary of ramaining write ine for Line 24 from everflow page		
3498. 3499.	Summary of remaining write-ins for Line 34 from overflow page	-	
UTJJ.	I State (Emission of this trace plus of sol/(Line of above)	<u>.                                    </u>	

## **SUMMARY OF OPERATIONS**

		1	2	3
		Current Year	Prior Year	Prior Year Ended
		To Date	To Date	December 31
1.	Premiums and annuity considerations for life and accident and health contracts		85,778,457	316,082,443
2. 3.	Considerations for supplementary contracts with life contingencies	7/ 202 701	72 256 042	1,880,791 327.135.452
3. 4.	Amortization of Interest Maintenance Reserve (IMR)	4 738 970	8 862 771	21,422,220
5.	Separate Accounts net gain from operations excluding unrealized gains or losses			
	Commissions and expense allowances on reinsurance ceded	4,874,381	(1,391,556)	13,374,096
7.	Reserve adjustments on reinsurance ceded			
8.	Miscellaneous Income:			
	8.1 Income from fees associated with investment management, administration and contract			
	guarantees from Separate Accounts.		10,390,129	41,451,146
	8.2 Charges and fees for deposit-type contracts			4 404 070
_	8.3 Aggregate write-ins for miscellaneous income		555,154	4,494,870
	Totals (Lines 1 to 8.3)	170,098,042	176,917,068	725,841,018
10.	Death benefits		48,856,079	87,500,975
11.	Matured endowments (excluding guaranteed annual pure endowments)			04.050.044
12.	Annuity benefits	32,074,858	25,267,888	91,658,344
13.	Disability benefits and benefits under accident and health contracts			445,739
14. 15.	Coupons, guaranteed annual pure endowments and similar benefits		134,950,253	535,341,987
16.	Group conversions			
17.	Interest and adjustments on contract or deposit-type contract funds		1 324 560	2.800.633
18.	Payments on supplementary contracts with life contingencies	196 027	179,295	794,788
19.	Increase in aggregate reserves for life and accident and health contracts		(33,753,426)	(154,857,265)
20.	Totals (Lines 10 to 19)		176,941,672	563,685,201
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct			550,000,201
1	business only)	5,606,887	5,740,206	22,403,882
22.	Commissions and expense allowances on reinsurance assumed			·
23.	General insurance expenses	6,364,229	9,032,426	34,687,003
24.	Insurance taxes, licenses and fees, excluding federal income taxes	3,280,605	3,037,993	9,400,671
25.	Increase in loading on deferred and uncollected premiums	(219,474)	(244,843)	(42,541)
26.	Net transfers to or (from) Separate Accounts net of reinsurance			(111,403,697)
27.	Aggregate write-ins for deductions	242,504	20,015,711	21,321,721
28.	Totals (Lines 20 to 27)	133,706,203	185,911,010	540,052,240
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus	00 004 000	(0.000.040)	105 700 770
	Line 28)	36,391,839	(8,993,942)	185,788,778
30.	Dividends to policyholders			
31.	Net gain from operations after dividends to policyholders and before federal income taxes (Line 29 minus Line 30)	36,391,839	(8,993,942)	185,788,778
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	9,811,102	(15,322,080)	23,309,418
33.	Net gain from operations after dividends to policyholders and federal income taxes and before	0,011,102	(10,022,000)	20,000,110
00.	realized capital gains or (losses) (Line 31 minus Line 32)	26,580,737	6,328,138	162,479,360
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital			
	gains tax of \$			
	transferred to the IMR)	3,551,012	(5,084,867)	(2,058,187)
35.	Net income (Line 33 plus Line 34)	30,131,749	1,243,271	160,421,173
	CAPITAL AND SURPLUS ACCOUNT			
36.	Capital and surplus, December 31, prior year	1,304,753,908	1,071,204,195	1,071,204,195
37.	Net income (Line 35)	30,131,749	1,243,271	160,421,173
38.		42,482,171		
39.	Change in net unrealized foreign exchange capital gain (loss)	(11,970,339)	(577,308)	(15,686,578)
40.	Change in net deferred income tax			(71, 188, 151)
41.	Change in nonadmitted assets	, ,	, ,	82,044,934
42.	Change in liability for reinsurance in unauthorized and certified companies			
43.	Change in reserve on account of change in valuation basis, (increase) or decrease			
44.	Change in asset valuation reserve			
45.	Change in treasury stock			
46.	Surplus (contributed to) withdrawn from Separate Accounts during period			
47.	Other changes in surplus in Separate Accounts Statement			
48.	Change in surplus notes			
49. 50	Cumulative effect of changes in accounting principles			
50.	Capital changes: 50.1 Paid in			
	50.2 Transferred from surplus (Stock Dividend)			
	50.3 Transferred to surplus			
51.	Surplus adjustment:			
	51.1 Paid in			
	51.2 Transferred to capital (Stock Dividend)			
	51.3 Transferred from capital			
	51.4 Change in surplus as a result of reinsurance			
52.	Dividends to stockholders			
53.	Aggregate write-ins for gains and losses in surplus	(764,078)	34,615,034	40,275,351
54.	Net change in capital and surplus for the year (Lines 37 through 53)	74,773,577	39,389,959	233,549,713
55.	Capital and surplus, as of statement date (Lines 36 + 54)	1,379,527,485	1,110,594,154	1,304,753,908
	DETAILS OF WRITE-INS			
	Administrative fee and other income	′	· · · · · · · · · · · · · · · · · · ·	4,494,870
	Summary of remaining write-ins for Line 8.3 from overflow page			
	Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	620,784	555, 154	4,494,870
	Miscellaneous chrges to operations	242,504	00.045.744	04 004 704
	Modco recaptured loss			
	Cumpany of variating units in fact ting 07 from qualiforn and			
	Summary of remaining write-ins for Line 27 from overflow page			21 221 721
	Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	242,504 (764,078)	20,015,711	21,321,721 40.275.351
	Other changes in surplus	` ' '	, ,	, ,,,,
	Summary of remaining write-ins for Line 53 from overflow page			
	Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	(764,078)	34,615,034	40,275,351
	, total and the place of t	(,0,0)	, ,	,=,001

## **CASH FLOW**

		Current Year To Date	Prior Year To Date	Prior Year Ended December 31
	Cash from Operations			
	Premiums collected net of reinsurance		87,281,279	320,131,466
2.	Net investment income	81,858,135	83,754,029	319,272,126
3.	Miscellaneous income	15,179,006	10,653,377	57,140,660
4.	Total (Lines 1 to 3)	166,279,077	181,688,685	696,544,252
5.	Benefit and loss related payments	171,701,653	208,301,414	732,591,565
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	(22,103,344)	(28, 106, 785)	(112,637,918
7.	Commissions, expenses paid and aggregate write-ins for deductions	16,102,783	38,149,089	90,490,902
8.	Dividends paid to policyholders			
9.	Federal and foreign income taxes paid (recovered) net of \$4,788,626 tax on capital			
	gains (losses)	8,992,668	2,784,803	53,929,300
10.	Total (Lines 5 through 9)	174,693,760	221,128,521	764,373,849
	Net cash from operations (Line 4 minus Line 10)	(8,414,683)	(39,439,836)	(67,829,59
		, , ,	. , , ,	, , ,
	Cash from Investments			
12.	Proceeds from investments sold, matured or repaid:			
	12.1 Bonds			
	12.2 Stocks			
	12.3 Mortgage loans		14,074,695	
	12.4 Real estate		1,865,803	4,556,098
	12.5 Other invested assets		22,804,333	53,314,35
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	(307,720)	44,872	108,757
	12.7 Miscellaneous proceeds	(67,576,506)	12,725,197	64,163,750
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	116,446,623	654,852,420	1,843,316,717
13.	Cost of investments acquired (long-term only):			
	13.1 Bonds	199,356,600	290,699,583	1, 164, 898, 108
	13.2 Stocks	2,476,782	669,440	7,478,970
	13.3 Mortgage loans	35,821,090	29,738,224	206,717,38
	13.4 Real estate		190 , 178	3,041,986
	13.5 Other invested assets	23,294,896	9,606,613	36,770,266
	13.6 Miscellaneous applications	(13,600,558)	(2,958,339)	14,788,264
	13.7 Total investments acquired (Lines 13.1 to 13.6)	247,348,810	327,945,699	1,433,694,975
14.	Net increase (or decrease) in contract loans and premium notes	3,564,860	(36,881,803)	(31,655,929
15.	Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(134,467,047)	363,788,524	441,277,67
13.	Net cash noin investments (Line 12.0 minus Line 13.7 and Line 14)	(104,407,047)	000,700,024	441,277,07
	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	6,553,946	(386,891)	240 , 105
	16.5 Dividends to stockholders			
	16.6 Other cash provided (applied)	131,288,767	(343,495,153)	(383,237,005
17.	Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	137,842,713	(343,882,044)	(382,996,900
	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)	(5,039,017)	(19,533,356)	(9,548,826
19.	Cash, cash equivalents and short-term investments:			
	19.1 Beginning of year	205,121,412	214,670,238	214,670,238
	19.2 End of period (Line 18 plus Line 19.1)	200,082,395	195,136,882	205,121,412
	pplemental disclosures of cash flow information for non-cash transactions:	1		
	1. Bank loan rollovers		1,546,423 5,149,249	49,452,32
20.000	3. Stock conversions	465,562		
	4. Dividend reinvestment		55 , 135 10 , 916	113,46 197,12
0.000	6. Interest capitalization for long-term debt	3,529	115,215	188, 14
	7. Policyholders' reserves transferred for reinsurance agreement		362,870,960 304,271,091	
	9. Policy loans transferred for reinsurance agreement			
20.000				

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

Note: Supplemental disclosures of cash now information for non-cash transactions.		
20.0011. Other liabilities transferred for reinsurance agreement	2,621,318	
	, ,	

## **EXHIBIT 1**

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

Current Year   Prior Year   P		DIRECT PREMIUMS AND DEPOSIT-TYPE	CONTRACTS	2	3
To Date			Current Vear		
1. Industrial life					
2. Ordinary life insurance			10 Bate	10 Date	December of
2. Ordinary life insurance	_				
3. Ordinary individual annuities	1.	industrial life			
3. Ordinary individual annuities					
4. Credit life (group and individual)	2.	Ordinary life insurance	54,672,447	57,835,685	227,662,828
4. Credit life (group and individual)					
5. Group life insurance	3.	Ordinary individual annuities	59,501,519	64,654,782	246,774,280
5. Group life insurance					
5. Group life insurance	4	Credit life (group and individual)			
6. Group annuities  7. A & H - group  8. A & H - credit (group and individual)  9. A & H - other  10. Aggregate of all other lines of business  11. Subtotal  12. Deposit-type contracts  13. Total  14. 113,696  122,517,787  475,335,364  DETAILS OF WRITE-INS  1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page		(group and marriada)			
6. Group annuities  7. A & H - group  8. A & H - credit (group and individual)  9. A & H - other  10. Aggregate of all other lines of business  11. Subtotal  12. Deposit-type contracts  13. Total  14. 113,696  122,517,787  475,335,364  DETAILS OF WRITE-INS  1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page	_	Croup life inquirence	(60, 270)	27 320	808 256
7. A & H - group	5.	Group me insurance	(00,270)	21,020	030,230
7. A & H - group					
8. A & H - credit (group and individual)	6.	Group annuities			
8. A & H - credit (group and individual)					
9. A & H - other	7.	A & H - group			
9. A & H - other					
9. A & H - other	8.	A & H - credit (group and individual)			
10. Aggregate of all other lines of business		(9,			
10. Aggregate of all other lines of business	۵	Λ ջ ⊔ other			
11. Subtotal       114,113,696       122,517,787       475,335,364         12. Deposit-type contracts       114,113,696       122,517,787       475,335,364         DETAILS OF WRITE-INS       1001.       1002.       1003.       1003.       1003.       1004.       1005.       1006. <td>Э.</td> <td>A &amp; 11 - Otilet</td> <td></td> <td></td> <td></td>	Э.	A & 11 - Otilet			
11. Subtotal       114,113,696       122,517,787       475,335,364         12. Deposit-type contracts       114,113,696       122,517,787       475,335,364         DETAILS OF WRITE-INS       1001.       1002.       1003.       1003.       1003.       1004.       1005.       1006. <td></td> <td></td> <td></td> <td></td> <td></td>					
12. Deposit-type contracts	10.	Aggregate of all other lines of business			
12. Deposit-type contracts					
13. Total 114,113,696 122,517,787 475,335,364  DETAILS OF WRITE-INS 1001. 1002. 1003. 1008. Summary of remaining write-ins for Line 10 from overflow page 1009. 10	11.	Subtotal	114,113,696	122,517,787	475,335,364
13. Total 114,113,696 122,517,787 475,335,364  DETAILS OF WRITE-INS 1001. 1002. 1003. 1008. Summary of remaining write-ins for Line 10 from overflow page 1009. 10					
13. Total 114,113,696 122,517,787 475,335,364  DETAILS OF WRITE-INS 1001. 1002. 1003. 1008. Summary of remaining write-ins for Line 10 from overflow page 1009. 10	12.	Deposit-type contracts			
DETAILS OF WRITE-INS  1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page		' '			
DETAILS OF WRITE-INS  1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page	12	Total	114 113 696	122 517 787	475 335 364
1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page	10.	Total	114,110,000	122,017,707	470,000,004
1001.  1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page		DETAIL O OF MIDITE IN O			
1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page		DETAILS OF WRITE-INS			
1002.  1003.  1098. Summary of remaining write-ins for Line 10 from overflow page					
1003.  1098. Summary of remaining write-ins for Line 10 from overflow page	1001.				
1003.  1098. Summary of remaining write-ins for Line 10 from overflow page					
1098. Summary of remaining write-ins for Line 10 from overflow page	1002.				
1098. Summary of remaining write-ins for Line 10 from overflow page					
1098. Summary of remaining write-ins for Line 10 from overflow page	1003				
	1000.				
	1000	Commence of commence in the last feet line 40 forms.			
1099. Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)	1098.	Summary or remaining write-ins for Line 10 from overflow page			
1099. Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)					
	1099.	Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)			

#### **TABLE OF CONTENTS**

- Note 1 Summary of Significant Accounting Policies
- Note 2 Accounting Changes and Corrections of Errors
- Note 3 Business Combinations and Goodwill
- Note 4 Discontinued Operations
- Note 5 Investments
- Note 6 Joint Ventures, Partnerships and LLCs
- Note 7 Investment Income
- Note 8 Derivative Instruments
- Note 9 Income Taxes
- Note 10 Information Concerning Parent, Subsidiaries and Affiliates
- Note 11 Debt
- Note 12 Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans
- Note 13 Capital and Surplus, Shareholders' Dividend Restrictions and Quasi-Reorganizations
- Note 14 Liabilities, Contingencies and Assessments
- Note 15 Leases
- Note 16 Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk
- Note 17 Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities
- Note 18 Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans
- Note 19 Direct Premium Written/Produced By Managing General Agents/Third Party Administrators
- Note 20 Fair Value Measurements
- Note 21 Other Items
- Note 22 Events Subsequent
- Note 23 Reinsurance
- Note 24 Retrospectively Rated Contracts and Contracts Subject to Redetermination
- Note 25 Change in Incurred Losses and Loss Adjustment Expenses
- Note 26 Intercompany Pooling Arrangements
- Note 27 Structured Settlements
- Note 28 Health Care Receivables
- Note 29 Participating Policies
- Note 30 Premium Deficiency Reserves
- Note 31 Reserves for Life Contracts and Annuity Contracts
- Note 32 Analysis of Annuity Actuarial Reserves and Deposit Liabilities by Withdrawal Characteristics
- Note 33 Premium and Annuity Considerations Deferred and Uncollected
- Note 34 Separate Accounts
- Note 35 Loss/Claim Adjustment Expenses
- Note 36 Impairment Listing for Loan-Backed and Structured Securities

#### Note 1 – Summary of Significant Accounting Policies

a. Accounting practices:

The accompanying financial statements of C.M. Life Insurance Company (the Company) have been prepared in conformity with the statutory accounting practices of the National Association of Insurance Commissioners (NAIC) and the accounting practices prescribed or permitted by the State of Connecticut Insurance Department (the Department).

- b. Use of estimates in the preparation of the financial statements No significant changes
- c. Accounting policy:
  - (1-5) No significant changes
  - (6) For fixed income securities that do not have a fixed schedule of payments, such as asset-backed securities, mortgage-backed securities, including residential mortgage-backed securities and commercial mortgage-backed securities, and structured securities, including collateralized debt obligations, amortization or accretion is revalued quarterly based on the current estimated cash flows, using either the prospective or retrospective adjustment methodologies for each type of security.

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

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

(7-14) No significant changes

#### Note 2 – Accounting Changes and Corrections of Errors

 For the three months ended March 31, 2015 and 2014, 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 December 2014, the NAIC issued Statement of Statutory Accounting Principles (SSAP) No. 40 Revised, "Real Estate Investments" (SSAP No. 40R), which was effective January 1, 2015, and requires that single real estate property investments that are directly and wholly-owned through a limited liability company (LLC) be accounted for, and reported as, directly owned real estate provided that certain criteria are met. For investments meeting the criteria that were previously reported within SSAP No. 48, "Joint Ventures, Partnerships and Limited Liability Companies" (SSAP No. 48), and owned as of the effective date, this guidance required that the Company recognize a cumulative effect of a change in accounting principle as if the entity had followed the revisions of SSAP No. 40R since acquisition of the property. The adoption of this guidance did not have a significant impact on the Company's valuation of its assets.

#### Note 3 - Business Combinations and Goodwill - No significant changes

#### Note 4 - Discontinued Operations - No significant changes

#### Note 5 - Investments

- a. Mortgage loans, including mezzanine real estate loans No significant changes
- b. Debt restructuring No significant changes
- c. Reverse mortgages No significant changes
- d. Loan-backed and structured securities:
  - (1) No significant changes
  - (2) The following contains loan-backed and structured securities that recognized other-than-temporary impairments (OTTI) classified on the following bases for recognizing OTTI:

		(1)		(2)	(3)
			OTTI		
		Amortized	Rec	ognized	
		Cost Basis	in	Loss	
		Before	(2a)	(2b)	Fair Value
		OTTI	Interest	Non-interest	1-(2a+2b)
			(In N	Millions)	
OTT	I recognized in the first quarter				
a.	Intent to sell	\$ -	\$ -	\$ -	\$ -
b.	Inability or lack of intent to retain the investment				
	in the security for a period of time sufficient to				
	recover the amortized cost basis	4	-	-	4
c.	Total first quarter	\$ 4	\$ -	\$ -	\$ 4
	•		-	·	-
OTT	I 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		_	_	_
f.	Total second quarter	\$ -	\$ -	\$ -	\$ -
	4		-	<del>-</del>	-
ОТТ	Transportation the third questor				
	I recognized in the third quarter Intent to sell	\$ -	\$ -	φ	Ф
g.		τ	ъ -	\$ -	\$ -
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				
			<u> </u>	<u> </u>	<u> </u>
i.	Total third quarter	<u> </u>	\$ -	\$ -	\$ -
OTT	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			. <u> </u>	
l.	Total fourth quarter	\$ -	\$ -	\$ -	\$ -

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

(3) The following is a CUSIP detail list of impaired structured securities where the present value of cash flows expected to be collected is less than the amortized cost basis.

CUSIP	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value at Time of OTTI	Date of Financial Instrument Where Reported
125435AA5	\$ 130,949.95	\$ 130,826.56	\$ (123.39)	\$ 130,826.56	\$ 130,199.04	March 31, 2015
17307GKZ0	28,426.86	28,392.44	(34.42)	28,392.44	27,903.33	March 31, 2015
589929N38	109,153.79	108,655.62	(498.17)	108,655.62	105,605.47	March 31, 2015
61750MAB1	744.86	675.83	(69.03)	675.83	736.96	March 31, 2015
81744FDK0	503,407.76	498,444.36	(4,963.40)	498,444.36	489,646.60	March 31, 2015
86359DMC8	2,562,280.17	2,543,017.82	(19,262.35)	2,543,017.82	2,530,463.99	March 31, 2015
885220FS7	553,016.84	541,787.54	(11,229.30)	541,787.54	545,060.88	March 31, 2015
939336KZ5	246,235.31	245,240.70	(994.61)	245,240.70	232,443.69	March 31, 2015
Total	\$ 4,134,215.54	\$ 4,097,040.87	\$ (37,174.67)	\$ 4,097,040.87	\$ 4,062,059.96	

(4) As of March 31, 2015, the gross unrealized losses and fair values for investments in structured and loan-backed securities for which an OTTI has not been recognized in earnings follow (in millions):

a. The aggregate amount of unrealized losses:

1.	Less than 12 months	\$	(2)		
2.	12 months or longer	\$	(5)		
The aggregate related fair value of securities with unrealized losses:					

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

1111	e aggregate related fair value of securities with diffea	iizeu iosses.	
1.	Less than 12 months	\$	187
2.	12 months or longer	\$	144

- (5) No significant changes
- e. Repurchase agreements No significant changes
- f. Real estate:

Effective January 1, 2015, the Company sold its participation interests in eight real estate properties to Massachusetts Mutual Life Insurance Company, the Company's sole shareholder, for \$25 million of cash, the fair value of the participation interests.

Refer to Note 10a-c. "Information Concerning Parent, Subsidiaries and Affiliates" for additional information.

- g. Low income housing tax credit properties No significant changes
- h. Restricted assets No significant changes
- i. Working capital finance investments The Company does not invest in working capital finance investments.
- j. The Company reports assets and liabilities as gross in the financial statements without offsetting.
- k. Structured notes No significant changes

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

Note 7 - Investment Income - No significant changes

Note 8 - Derivative Instruments - No significant changes

Note 9 - Income Taxes - No significant changes

#### Note 10 - Information Concerning Parent, Subsidiaries and Affiliates

- a-c. Effective January 1, 2015, the Company sold its participation interests in eight real estate properties to Massachusetts Mutual Life Insurance Company, the Company's sole shareholder, for \$25 million of cash, the fair value of the participation interests. The carrying value of the real estate investments at the time of sale was \$24 million, which was net of encumbrances of \$9 million that were assumed by MassMutual. Upon sale of the real estate investments, the Company recognized a net gain of \$1 million, which was recorded through net realized capital gains (losses).
- d-I. No significant changes

#### Note 11 - Debt

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

## Note 12 – Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans - No significant changes

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

#### Note 14 - Liabilities, Contingencies and Assessments

- a. Contingent commitments No significant changes
- b. Assessments No significant changes
- c. Gain contingencies No significant changes
- d. Claims related to extra contractual obligations No significant changes
- e. All other contingencies:

The Company is involved in litigation arising in the normal course of business, which seeks both compensatory and punitive damages and equitable remedies. Although the Company is not aware of any actions or allegations that reasonably should give rise to a material adverse impact to the Company's financial position or liquidity, the outcome of litigation cannot be foreseen with certainty. It is the opinion of management that the ultimate resolution of these matters will not materially impact the Company's financial position or liquidity. However, the outcome of a particular proceeding may be material to the Company's 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.

f. Regulatory matters:

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

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

Note 15 - Leases - No significant changes

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

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

- a. Transfers of receivables reported as sales No significant changes
- b. Transfer and Servicing of Financial Assets:
  - (1) The Company did not participate in securities lending as of March 31, 2015 or December 31, 2014.
  - (2) The Company did not have any servicing assets or liabilities in 2015 or 2014.
  - (3) The Company did not have any servicing assets or liabilities in 2015 or 2014.
  - (4) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2015 or 2014.
  - (5) The Company did not have any transfers of financial assets accounted for as secured borrowing in 2015 or 2014.
  - (6) The Company did not have any transfers of receivables with recourse in 2015 or 2014.
  - (7) Repurchase agreements no significant changes

#### c. Wash sales:

- (1) In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days of the sale date.
- (2) The Company did not sell any securities with the NAIC Designation 3 or below through the quarter ended March 31, 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 – No significant changes

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

#### Note 20 - Fair Value Measurements

- a. Fair value as defined and unique level descriptions No significant changes
  - 1. The following presents the Company's fair value hierarchy for assets and liabilities that are carried at fair value:

	March 31, 2015							
	Level 1 Level 2 Level 3			Total				
	(In Millions)							
Financial assets:								
Bonds:								
Industrial and miscellaneous	\$	-	\$	1	\$	-	\$	1
Parent, subsidiaries and affiliates		-		2		9		11
Common stock - unaffiliated		1		-		2		3
Common stock - affiliated		7		-		-		7
Separate account assets	1	,887		-		-		1,887
Derivatives:								
Interest rate swaps		-		597		-		597
Options		-		61		-		61
Currency swaps		-		27		-		27
Forward contracts		-		3		-		3
Credit default swaps		-		-		-		-
Total financial assets carried								
at fair value	\$ 1	,895	\$	691	\$	11	\$	2,597
Financial liabilities:								
Derivatives:								
Interest rate swaps	\$	_	\$	577	\$	_	\$	577
Currency swaps	•	-	,	1	•	-	•	1
Credit default swaps		-		-		-		-
Total financial liabilities carried								
at fair value	\$	-	\$	578	\$	-	\$	578
		=		=		_	_	

For the three months ended March 31, 2015 there were no significant transfers between Level 1 and Level 2.

	December 31, 2014								
	Level 1			vel 2	Lev	/el 3		Total	
				(In Mi	llions)				
Financial assets:									
Bonds:						_		_	
Industrial and miscellaneous	\$	-	\$	-	\$	3	\$	3	
Parent, subsidiaries and affiliates		-		-		9		9	
Common stock - unaffiliated		-		-		3		3	
Common stock - affiliated		7		-		-		7	
Separate account assets		1,863		-		-		1,863	
Derivatives:									
Interest rate swaps		-		462		-		462	
Options		-		49		-		49	
Currency swaps		-		11		-		11	
Forward contracts		-		3		-		3	
Credit default swaps		-		-		-		-	
Total financial assets carried									
at fair value	\$	1,870	\$	525	\$	15	\$	2,410	
Financial liabilities:									
Derivatives:									
Interest rate swaps	\$	-	\$	465	\$	-	\$	465	
Currency swaps		-		4		-		4	
Credit default swaps		-		-		-		-	
Total financial liabilities carried								,	
at fair value	\$	-	\$	469	\$	-	\$	469	

For the year ended December 31, 2014 there were no significant transfers between Level 1 and Level 2.

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

	Bala	nce														Bala	nce
	as	of	Trar	nsfers <sup>(1)</sup>	Gains	in	Losses	in								as	of
	01/01/	2015	In	Out	Net Inco	me	Surplu	S	Purch	ases	Issuan	ces	Sa	les	Settlements	03/31/	2015
								(In I	Millions	;)							
Financial assets:																	
Bonds:																	
Industrial and miscellaneous	\$	3	\$ -	\$ (3)	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Parent, subsidiaries and affiliates		9	-	-		-		(1)		2		-		-	(1)		9
Preferred stocks		-	-	-		-		-		-		-		-	-		-
Common stocks - unaffiliated		3	-	-		-		-		-		-		(1)	-		2
Total financial assets	\$	15	\$-	\$ (3)	\$	-	\$	(1)	\$	2	\$	-	\$	(1)	\$ (1)	\$	11

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

	Baland as of		Tran	sfers <sup>(1)</sup>	Losses	s in	Gains	in							Bala as	
	01/01/2	014	In	Out	Net Inco	ome	Surpli	JS	Purch	ases	Issua	nces	Sales	Settlements	12/31/	2014
							(	In Mil	llions)							
Financial assets:																
Bonds:																
Industrial and miscellaneous	\$	1	\$ -	\$ (1)	\$	-	\$	-	\$	-	\$	3	\$ -	\$ -	\$	3
Parent, subsidiaries and affiliates		-	5	-		-		(1)		3		11	-	(9)		9
Preferred stock		-	-	-		-		-		-		-	-	-		-
Common stock - unaffiliated		2	-	-		1		-		1		-	(1)	-		3
Total financial assets	\$	3_	\$ 5	\$ (1)	\$	1_	\$	(1)	\$	4_	\$	14	\$ (1)	\$ (9)	\$	15

<sup>(1)</sup> Transfers include assets that are either no longer carried at fair value, or have just begun to be carried at fair value, such as assets with no level changes but change in lower of cost or market carrying basis. The parent subsidiaries, and affiliates were transferred in to Level 3 from Level 2 due to a change in the observability of pricing inputs.

- 3. Fair value hierarchy classifications No significant changes
- 4. Valuation techniques and inputs No significant changes
- 5. Derivative assets and liabilities fair value disclosures No significant changes

- b. The Company provides additional fair value information in Notes 1, 5, 8, 21, 32 and 34.
- c. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

	March 31, 2015											
	_	gregate ir Value		mitted ssets	Le	evel 1	L	evel 2	Le	evel 3	Prac (Ca	Not ticable rrying llue)
						(In M	illion	ıs)				
Financial assets:												
Bonds:												
U. S. government and agencies	\$	298	\$	272	\$	-	\$	298	\$	-	\$	-
All other governments		1		1		-		1		-		-
States, territories and possessions		81		74		-		79		2		-
Political subdivisions		19		17		-		19		-		-
Special revenue		99		85		-		97		2		-
Industrial and miscellaneous		3,844		3,593		-		2,281		1,563		-
Parent, subsidiaries and affiliates		349		331		-		60		289		-
Preferred stocks		33		31		16		-		17		-
Common stock - unaffiliated		3		3		1		-		2		-
Common stock - affiliated <sup>(1)</sup>		7		7		7		-		-		-
Mortgage loans - commercial		779		744		-		-		779		-
Mortgage loans - residential		205		208		-		-		205		-
Cash, cash equivalents and												
short-term investments		200		200		(4)		204		-		-
Separate account assets		1,887		1,887		1,887		-		-		-
Derivatives:												
Interest rate swaps		597		597		-		597		-		-
Options		61		61		-		61		-		-
Currency swaps		27		27		-		27		-		-
Forward contracts		3		3		-		3		-		-
Credit default swaps		-		-		-		-		-		-
Financial liabilities:												
Repurchase agreements		242		242		-		242		-		-
Individual annuity contracts		3,303		3,194		-		-		3,303		-
Supplementary contracts		51		51		-		-		51		-
Derivatives:												
Interest rate swaps		577		577		-		577		-		-
Currency swaps		1		1		-		1		-		-
Forward contracts		-		-		-		-		-		-
Credit default swaps		-		-		-		-		-		-

<sup>&</sup>lt;sup>(1)</sup>Common stocks - affiliates do not include Bay State Life, which had a statutory carrying value of \$217 million.

				Decemb	er 31, i	2014				
	 gregate r Value	_	lmitted ssets	Level 1	Le	vel 2	Le	evel 3	Pra (Ca	Not cticable arrying alue)
				(In N	/lillions	)				
Financial assets:										
Bonds:										
U. S. government and agencies	\$ 296	\$	273	\$ -	\$	295	\$	1	\$	-
All other governments	1		1	-		1		-		-
States, territories and possessions	79		72	-		79		-		-
Political subdivisions	18		16	-		17		1		-
Special revenue	97		83	-		95		2		-
Industrial and miscellaneous	3,772		3,574	-	2	2,245		1,527		-
Parent, subsidiaries and affiliates	325		306	-		46		279		-
Preferred stocks	31		29	15		-		16		-
Common stock - unaffiliated	3		3	-		-		3		-
Common stock - subsidiary and affiliate	7		7	7		-				-
Mortgage loans - commercial	761		734	-		-		761		-
Mortgage loans - residential	206		210	-		-		206		-
Cash, cash equivalents and				_						
short-term investments	205		205	5		200		-		-
Separate account assets	1,863		1,863	1,863		-		-		-
Derivatives:										
Interest rate swaps	462		462	-		462		-		-
Options	49		49	-		49		-		-
Currency swaps	11		11	-		11		-		-
Forward contracts	3		3	-		3		-		-
Financial liabilities:										
Repurchase agreements	240		240	-		240		-		-
Individual annuity contracts	3,338		3,227	-		-		3,338		-
Supplementary contracts	45		45	-		-		45		-
Derivatives:										
Interest rate swaps	465		465	-		465		-		-
Currency swaps	4		4	-		4		-		-
Forward contracts	-		-	-		-		-		-

<sup>(1)</sup> Common stocks - affiliates do not include Bay State Life, which had a statutory carrying value of \$211 million.

d. For the three months ended March 31, 2015, the Company had no investments where it was not practicable to estimate fair value.

#### Note 21 - Other Items

- a. Extraordinary items No significant changes
- b. Troubled debt restructuring No significant changes
- c. Other disclosures and unusual items

#### Business risks

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

#### Currency exchange risk

The Company has currency risk due to its non-U.S. dollar investments. The Company mitigates currency risk through the use of cross-currency swaps and forward contracts. Cross-currency swaps are used to minimize currency risk for certain non-U.S. dollar assets and liabilities through a pre-specified exchange of interest and principal. Forward contracts are used to hedge movements in exchange rates.

#### Investment and interest rate risks

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

The levels of U.S. interest rates are influenced by U.S. monetary policies and by the relative attractiveness of U.S. markets to investors versus other global markets. As interest rates increase, certain debt securities may experience slower amortization or prepayment speeds than assumed at purchase, impacting the expected maturity of these securities and the ability to reinvest the proceeds at the higher yields. Rising interest rates may also result in a decrease in the fair value of the investment portfolio. As interest rates decline, certain debt securities may experience accelerated amortization and prepayment speeds than what was assumed at purchase. During such

periods, the Company is at risk of lower net investment income as it may not be able to reinvest the proceeds at comparable yields. Declining interest rates may also increase the fair value of the investment portfolio.

- d. Business interruption insurance recoveries No significant changes
- e. State transferrable tax credits No significant changes
- f. Subprime mortgage related risk exposure:
  - (1) No significant changes
  - (2) No significant changes
  - (3) The actual cost reduced by paydowns, carrying value, fair value and related gross realized losses from OTTI of the Company's investments with significant Alt-A and subprime exposure were as follows:

		ı	March (	31, 2015	5		Three Months Ended March 31, 2015
	Ad	ctual	Carry	ring	F	air	
Alt-A:	C	ost	Valu	ıe	V	alue	OTTI
				(In	Millic	ns)	
a. Residential mortgage-backed securities	\$	49	\$	34	\$	42	\$ -
b. Commercial mortgage-backed securities		-		-		-	-
c. Collateralized debt obligations		-		-		-	-
d. Structured securities		-		-		-	-
e. Equity investments in SCAs *		4		3		4	-
f. Other assets		-		-		-	-
g. Total	\$	53	\$	37	\$	46	\$ -

			March	31, 201	5		Three Months Er March 31, 2015	nded
	A	ctual	Carry			air		
Subprime:	C	Cost	Valı	Ū	V	alue	OTTI	
				(1	n Milli	ons)		
a. Residential mortgage-backed securities	\$	26	\$	21	\$	23	\$	-
b. Commercial mortgage-backed securities		-		-		-		-
c. Collateralized debt obligations		-		-		-		-
d. Structured securities		-		-		-		-
e. Equity investments in SCAs *		4		2		3		-
f. Other assets		-		-		-		
g. Total	\$	30	\$	23	\$	26	\$	_

<sup>\*</sup> The Company's SCA, MML Bay State, has investments in Alt-A and subprime mortgages. These investments comprise less than 1% of the Company's invested assets.

		D	ecembe	er 31, 20	)14		Year Ende December 2014	-
	A	ctual	Carry	ring	F	air		
Alt-A:		Cost	Valu	ue	V	alue	OTTI	
				(In N	/lillions	)		
a. Residential mortgage-backed securities	\$	51	\$	35	\$	43	\$	-
b. Commercial mortgage-backed securities		-		-		-		-
c. Collateralized debt obligations		-		-		-		-
d. Structured securities		-		-		-		-
e. Equity investments in SCAs *		4		3		4		-
f. Other assets		-		-		-		
g. Total	\$	55	\$	38	\$	47	\$	-

			ecembe	er 31, 20	14		December 2014	
	Ad	ctual	Carry	ring	F	air		
Subprime:	C	ost	Valu	ıe	V	alue	OTTI	
				(In M	(lillions			
a. Residential mortgage-backed securities	\$	27	\$	22	\$	23	\$	-
b. Commercial mortgage-backed securities		-		-		-		-
c. Collateralized debt obligations		-		-		-		-
d. Structured securities		-		-		-		-
e. Equity investments in SCAs *		4		2		3		-
f. Other assets		-		-		-		-
g. Total	\$	31	\$	24	\$	26	\$	-

Vear Ended

- \* The Company's SCA, MML Bay State, has investments in Alt-A and subprime mortgages. These investments comprise less than 1% of the Company's invested assets.
- (4) The Company has no underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty insurance coverage.
- g. Retained asset accounts No significant changes

#### Note 22 - Events Subsequent

The Company has evaluated subsequent events through May 6, 2015, the date the financial statements were available to be issued. No events have occurred subsequent to the balance sheet date and before the date of evaluation that would require disclosure.

#### Note 23 - Reinsurance

- a. Ceded Reinsurance Report:
  - Section 1 General Interrogatories No significant changes
  - Section 2 Ceded Reinsurance Report Part A No significant changes
  - Section 3 Ceded Reinsurance Report Part B No significant changes
- b-d. No significant changes
- Note 24 Retrospectively Rated Contracts and Contracts Subject to Redetermination No significant changes
- Note 25 Change in Incurred Losses and Loss Adjustment Expenses No significant changes
- <u>Note 26 Intercompany Pooling Arrangements</u> No significant changes
- Note 27 Structured Settlements No significant changes
- Note 28 Health Care Receivables No significant changes
- Note 29 Participating Policies No significant changes
- <u>Note 30 Premium Deficiency Reserves</u> No significant changes
- Note 31 Reserves for Life Contracts and Annuity Contracts No significant changes
- Note 32 Analysis of Annuity Actuarial Reserves and Deposit Liabilities by Withdrawal Characteristics No significant changes
- Note 33 Premium and Annuity Considerations Deferred and Uncollected No significant changes
- Note 34 Separate Accounts No significant changes
- Note 35 Loss/Claim Adjustment Expenses No significant changes

### **GENERAL INTERROGATORIES**

### **PART 1 - COMMON INTERROGATORIES**

#### **GENERAL**

1.1	Did the reporting entity experience any material transactions requiring Domicile, as required by the Model Act?						Yes [	No [ X ]	
1.2	If yes, has the report been filed with the domiciliary state?			Yes [ ]	No [ ]				
2.1	Has any change been made during the year of this statement in the creporting entity?						Yes [	No [ X ]	
2.2	If yes, date of change:					<u>-</u>			
3.1	Is the reporting entity a member of an Insurance Holding Company S is an insurer?  If yes, complete Schedule Y, Parts 1 and 1A.						Yes [ X ]	No [ ]	
3.2	Have there been any substantial changes in the organizational chart	since the prior quarte	er end?				Yes [	No [ X ]	
3.3	If the response to 3.2 is yes, provide a brief description of those chan	nges.							
4.1	Has the reporting entity been a party to a merger or consolidation du	uring the period cover	ed by this statemen	t?			Yes [	No [ X ]	
4.2	If yes, provide the name of the entity, NAIC Company Code, and state ceased to exist as a result of the merger or consolidation.	e of domicile (use two	o letter state abbrev	iation) for any entity	that has				
	1 Name of Entity	NA	2 IC Company Code	3 State of Domicile					
5.	If the reporting entity is subject to a management agreement, includir in-fact, or similar agreement, have there been any significant chang If yes, attach an explanation.	ng third-party adminis les regarding the term	strator(s), managing ns of the agreement	general agent(s), att or principals involve	orney- d?	Yes [	] No [ 2	( ] N/A [	]
6.1	State as of what date the latest financial examination of the reporting	entity was made or i	s being made			<u>-</u>	12/3	1/2009	
6.2	State the as of date that the latest financial examination report becardate should be the date of the examined balance sheet and not the						12/3	1/2009	
6.3	State as of what date the latest financial examination report became the reporting entity. This is the release date or completion date of the date).	ne examination report	and not the date of	the examination (ba	lance sh	neet	12/2	0/2010	
6.4 6.5	By what department or departments? State of Connecticut Insurance Department Have all financial statement adjustments within the latest financial ex statement filed with Departments?	amination report bee	n accounted for in a	subsequent financia	ıl	Yes [ X	] No [	] N/A [	]
6.6	Have all of the recommendations within the latest financial examinati								]
7.1	Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	registrations (includi	ng corporate registra	ation, if applicable) s	uspende	ed or	Yes [ ]	No [X]	
7.2	If yes, give full information:								
8.1	Is the company a subsidiary of a bank holding company regulated by	the Federal Reserve	Board?				Yes [	No [X]	
8.2	If response to 8.1 is yes, please identify the name of the bank holding	g company.							
8.3	Is the company affiliated with one or more banks, thrifts or securities	firms?					Yes [ X ]	No [ ]	
8.4	If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), t Insurance Corporation (FDIC) and the Securities Exchange Commis	the Office of the Com	ptroller of the Curre	ncy (OCC), the Fede	ral Depo				
	1	1	2	3	4	5	6		
	Affiliate Name Babson Capital Securities, LLC	Boston, MA	tion (City, State)	FRB	OCC	FDIC	SEC		
	Baring Asset Management (Asia) Limited	Hong Kong					YES		
	Baring International Investment Limited	London, UK					YES		
	MML Distributors, LLC	Enfield, CT					YES		
	MML Investment Advisers, LLC						YES YES		
	MML Strategic Distributors, LLC						YES		
	MMLISI Financial Alliances, LLC	Springfield. MA					YES		
	OppenheimerFunds Distributor, Inc.						YES		
	Society of Grownups, LLC	Springfield, MA					YES		
	The MassMutual Trust Company, FSB	Enfield, CT			YES				

## **GENERAL INTERROGATORIES**

9.1	Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, o similar functions) of the reporting entity subject to a code of ethics, which includes the following standards?	nal and professional	Yes [ X ] No [	]
9.11	If the response to 9.1 is No, please explain:			
9.2 9.21	Has the code of ethics for senior managers been amended?		Yes [ ] No [	Х ]
				v 1
9.3 9.31	Have any provisions of the code of ethics been waived for any of the specified officers?		Yes [ ] NO [	X ]
	FINANCIAL			
10.1 10.2	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement? If yes, indicate any amounts receivable from parent included in the Page 2 amount:			-
	INVESTMENT			
11.1 11.2	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or other use by another person? (Exclude securities under securities lending agreements.)  If yes, give full and complete information relating thereto:  Repurchase Agreements	wise made available for	Yes [ X ] No [	]
12.	Amount of real estate and mortgages held in other invested assets in Schedule BA:	\$	105,34	0,077
13.	Amount of real estate and mortgages held in short-term investments:			
14.1	Does the reporting entity have any investments in parent, subsidiaries and affiliates?		Yes [ X ] No [	]
14.2	if yes, please complete the following.	1	2	
		Prior Year-End Book/Adjusted Carrying Value	Current Qua Book/Adjus Carrying Va	ted lue
	Bonds		\$330,70	,
14.22	Preferred Stock\$		\$	
	Common Stock \$		\$217, 10	
	Short-Term Investments \$		\$	
14.25	Mortgage Loans on Real Estate \$ All Other \$	140, 400, 225	\$ \$ 151.7′	
14.20	Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26)	149,402,333	\$151,72 \$699,52	
14.28	Total Investment in Parent included in Lines 14.21 to 14.26 above	000,020,408	\$b99,5	
15.1 15.2	Has the reporting entity entered into any hedging transactions reported on Schedule DB?  If yes, has a comprehensive description of the hedging program been made available to the domiciliary state?  If no, attach a description with this statement.			

## **GENERAL INTERROGATORIES**

16.	For the reporting entity's security le	nding program, state the amount of the	following as	of the current s	statement date:		
	16.1 Total fair valu	e of reinvested collateral assets report	ed on Sched	ule DL, Parts 1	and 2	\$	
	16.2 Total book ad	justed/carrying value of reinvested coll	ateral assets	reported on So	hedule DL, Parts 1 and 2	.\$	
17. 17.1	offices, vaults or safety deposit bo custodial agreement with a qualifie	tion Examiners Handbook?	Yes [	X ] No [ ]			
		1			2		
		Custodian(s)	222 Wast 24		Custodian Address York, NY 10001		
				,	19th Floor, New York, NY 10005		
				,	Kansas City, MO, 64105		
	State Street Grobal Services		OOT TOTALISY	vailla Aveilue, i	Mansas Ofty, Mo, 04100		
17.2	For all agreements that do not com location and a complete explanation	ply with the requirements of the NAIC on:	Financial Co	ndition Examine	rs Handbook, provide the name,		
	1	2			3		
	Name(s)	Location(s)			Complete Explanation(s)		
17.3 17.4	Have there been any changes, including the search of the s	· · · · · · · · · · · · · · · · · · ·	s) identified i	n 17.1 during th	e current quarter?	Yes [	] No [ X ]
	1	2		3	4		
	Old Custodian	New Custodian	Dat	e of Change	Reason		
17.5		L kers/dealers or individuals acting on b ity to make investments on behalf of th			ave access to the investment accounts,		
	1	2			3		
	Central Registration Depository 106006	Name(s)		4500 H : 01	Address		
	106006	Babson Capital Management, LLC			eet, Springfield, MA 01115eet, Springfield, MA 01115elbourne. V		
	162754	IFM Investors Pty Ltd			erden, 2 Lonsdare Street, Merbourne, v	-	
18.1	Have all the filing requirements of the	ne Purposes and Procedures Manual o	of the NAIC S	ecurities Valuat	tion Office been followed?	Yes [	] No [ X ]

At 3/31/2015, 40 issues for 32 issuers did not meet the filing requirements of the Purposes and Procedures Manual. The majority of these issues currently lack one or more of the following: Valid cusip/PPN, audited financials and/or executed legal documentation. Exceptions totaled \$18,363,423 or 0.40% of all assets.

## **GENERAL INTERROGATORIES**

### PART 2 - LIFE & HEALTH

١.	Report the statement value of mortgage loans at the end of this reporting period for the following categories:	I Amount
	1.1 Long-Term Mortgages In Good Standing	Amount
	1.11 Farm Mortgages	\$
	1.12 Residential Mortgages	\$208,103,100
	1.13 Commercial Mortgages	\$743,711,061
	1.14 Total Mortgages in Good Standing	\$ 951,814,161
	1.2 Long-Term Mortgages In Good Standing with Restructured Terms	
	1.21 Total Mortgages in Good Standing with Restructured Terms	\$
	1.3 Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months	
	1.31 Farm Mortgages	\$
	1.32 Residential Mortgages	\$
	1.33 Commercial Mortgages	\$
	1.34 Total Mortgages with Interest Overdue more than Three Months	\$
	1.4 Long-Term Mortgage Loans in Process of Foreclosure	
	1.41 Farm Mortgages	\$
	1.42 Residential Mortgages	
	1.43 Commercial Mortgages	
	1.44 Total Mortgages in Process of Foreclosure	
	1.44 Total Mongages IIT Tocess of Totellosure	Ψ
.5	Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)	\$951,814,161
.6	Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter	
	1.61 Farm Mortgages	\$
	1.62 Residential Mortgages	\$
	1.63 Commercial Mortgages	\$
	1.64 Total Mortgages Foreclosed and Transferred to Real Estate	\$
2.	Operating Percentages:	
	2.1 A&H loss percent	%
	2.2 A&H cost containment percent	%
	2.3 A&H expense percent excluding cost containment expenses	%
.1	Do you act as a custodian for health savings accounts?	Yes [ ] No [ X ]
.2	If yes, please provide the amount of custodial funds held as of the reporting date	\$
.3	Do you act as an administrator for health savings accounts?	Yes [ ] No [ X ]

3.4 If yes, please provide the balance of the funds administered as of the reporting date \_\_\_\_\_\_\_\$ \_\_\_\_\_

## SCHEDULE S - CEDED REINSURANCE Showing All New Reinsurance Treaties - Current Year to Date

			S	nowing All New Reinsurance Trea	ties - Current '	Year to Date		
1	2	3	4	5	6	7	8	9
								Effective
						<del></del>	Certified	Date of
NAIC					Type of		Reinsurer	Certified
Company	ID	Effective		D mick	ry Rein		Rating	Reinsurer
NAIC Company Code	Number	Date	Name of Reinsurer	Ju sdic	C led	Type of Reinsurer	(1 through 6)	Rating

#### **SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS**

Current Year To Date - Allocated by States and Territories

		urrent Year	To Date - Alloca	ated by States a		iness Only		
		1	l ifa Co	ontracts	Direct Bus	iness Only 5	6	7
		'	2	3	Accident and	5	0	i '
					Health Insurance			
1					Premiums, Including Policy,		Total	
		Active	Life Insurance	Annuity	Membership	Other	Columns	Deposit-Type
	States, Etc.	Status	Premiums	Considerations	and Other Fees	Considerations	2 Through 5	Deposit-Type Contracts
1.	AlabamaAL	LL	592,332	766,837			1,359,169	
2.	Alaska AK	L	11,034	2,600			13,634	
3.	ArizonaAZ	L	873,625	138,578			1,012,203	
4.	Arkansas AR	L	76,833	24,086			100,919	
5.	California CA	L	6,533,335	6,070,414			12,603,749	
6.	ColoradoCO	L	728,850	758,926			1,487,776	
7.	Connecticut CT	L	1,433,522	1,388,487			2,822,009	
8.	DelawareDE	L	196,565	29,848			226,413	
9.	District of Columbia DC	L	471,238	15,692			486,930	
10.	FloridaFL	L	6,774,982	3,054,293			9,829,275	
11.	Georgia GA	L	1,715,214	732,546			2,447,760	
12.	HawaiiHI	<u>L</u>	543,696	386,656			930,352	
13.	IdahoID	<u>-</u>	89, 118	2,691			91,809	
14.	IllinoisL	<u>-</u>	1,884,519	1,371,686			3,256,205	
15.	IndianaIN	<u>-</u>	566,884	759,005			1,325,889	·
16.	lowa IA		356,592	264,931			621,523	<b></b>
17.	Kansas KS Kentucky KY	LL	349,417	1,315,234 103,411			1,664,651	<u> </u>
18.	•		219,380	2.490.742			322,791	
19.	LA Maine ME	L	293,246	2,490,742			2,783,988	
20.			153,890				418,790	
21. 22.	Maryland MD Massachusetts MA	L	1,931,017 1,327,427	477,952 4,036,879	l		2,408,969 5,364,306	
23.	Michigan MI	LL	1,327,427	4,036,879			4,772,851	
23. 24.	Minnesota MN	L	1, 152, 263				4,772,851	
24. 25.	Mississippi	LL	1,211,297	1,726,358	<u> </u>		2,937,655	
25. 26.	Missouri MO	l		2,341,061			3,006,151	
26. 27.	Montana	L	118,420	506,223	<u> </u>		624,643	
28.	Nebraska	L	587,445	232,059			819,504	
29.	Nevada	L	307,569	82,025			389,594	
30.	New HampshireNH	I	315,682	2,196,483			2,512,165	
31.	New JerseyNJ	Ĺ	2,494,739	1.981.023			4,475,762	
32.	New MexicoNM	Ĺ	486,592	91,775			578,367	
33.	New York NY	N	1,426,818	23,514			1,450,332	
34.	North CarolinaNC	L	1,867,198	787,384			2,654,582	
35.	North DakotaND	L	6,406	495,839			502,245	L
36.	Ohio OH	L	1,212,772	1,595,786			2,808,558	
37.	Oklahoma OK	L	560,325	405 , 126			965,451	
38.	Oregon OR	L	281,952	973,577			1,255,529	
39.	Pennsylvania PA	L	2,502,962	5, 103, 666			7,606,628	
40.	Rhode IslandRI	L	329,712	1, 152, 094			1,481,806	
41.	South Carolina SC	L	966,368	133,859			1, 100, 227	
42.	South Dakota	L	78,417	213,491			291,908	
43.	Tennessee TN	L	1, 130, 724	900,298			2,031,022	
44.	TexasTX	L	3,956,199	6,422,072			10,378,271	
45.	Utah UT	L	470,540	407,472			878,012	
46.	VermontVT	L	164,080	573,382			737,462	
47.	VirginiaVA	L	2,298,052	960,480			3,258,532	
48.	Washington WA	<u>L</u>	750,871	337,254			1,088,125	
49.	West Virginia WV	<u>-</u>	177,591	176,688			354,279	
50.	Wisconsin WI	<u>-</u>	396,202	1,300,817			1,697,019	
51.	WyomingWY	<u>L</u>	45,059	42,830			87,889	
52.	American Samoa	N						·
53.	Guam	N	60	45 504			60	<b></b>
54.	Puerto Rico PR	L	1,298,726	15,501			1,314,227	
55.	U.S. Virgin Islands	N	781		f		781	
56.	Northern Mariana IslandsMP	NN	5 000		<u> </u>		F 000	
57.	Canada CAN Aggregate Other Aliens OT	NXXX	5,099	1,502	<b></b>		5,099	
58. 59.	Subtotal	(a)51	55,098,809				107,205	
90.	Reporting entity contributions for employee benefits	` '			<u> </u>		114,000,020	
30.	plans	XXX		<u> </u>			<u> </u>	
91.	Dividends or refunds applied to purchase paid-up							
	additions and annuities	XXX	<b></b>	<b> </b>	<b> </b>		<b> </b>	<b> </b>
92.	Dividends or refunds applied to shorten endowmen							
	or premium paying period	XXX						
93.	Premium or annuity considerations waived under	V////	447 ==:				447	
	disability or other contract provisions.	XXX	141,574				141,574	<del> </del>
94.	Aggregate or other amounts not allocable by State		FF 040 000	50 504 545	<b> </b>		444 744 000	}
95.	Totals (Direct Business)	XXX	55,240,383	59,501,519	<b>}</b>		114,741,902	}
96.	Plus Reinsurance Assumed	XXX	FF 040 000	FO FO1 F10	<del> </del>	<b></b>	114 741 000	}
97	Totals (All Business)	XXX	55,240,383	59,501,519	<del> </del>		114,741,902	<del> </del>
98.	Less Reinsurance Ceded	XXX	45,499,966	E0 E01 E10	<u> </u>		45,499,966	<b> </b>
99.	Totals (All Business) less Reinsurance Ceded	XXX	9,740,417	59,501,519			69,241,936	
F000 1	DETAILS OF WRITE-INS	VAA.	105 700	1.500			407 00-	
	Other foreign	XXXXXX	105,703	1,502			107,205	
		XXX					<b></b>	
	Summary of remaining write-ins for Line 58 from		<b></b>	<u> </u>	<b></b>		<u> </u>	
56998.	overflow page	XXX						
58999	Totals (Lines 58001 through 58003 plus				<u> </u>			
35555.	58998)(Line 58 above)	XXX	105,703	1,502			107,205	
9401.		XXX		.,,002			,200	
		XXX						
9403.		XXX						
	Summary of remaining write-ins for Line 94 from							
	overflow page	XXX						
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line							
<u></u>	94 above)	XXX		L	L			
(L) Licen:	sed or Chartered - Licensed Insurance Carrier or Do	miciled RRG; (F	R) Registered - Non-	-domiciled RRGs; (	Q) Qualified - Quali	tied or Accredited I	Reinsurer; (E) Eligib	ole - Reportina

<sup>(</sup>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.

PART 1 – ORGANIZATIONAL CHART

04-3313782

Delaware

	Federal Tax ID	NAIC Co Code	<b>State of Domicile</b>
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Mezzanine Investor, LLC	06-1041383		Delaware
CML Mezzanine Investor L, LLC	06-1041383		Delaware
CML Mezzanine Investor III, LLC	06-1041383		Delaware
CML Re Finance LLC	06-1041383		Delaware
CML Special Situations Investor LLC	None		Delaware
MML Mezzanine İnvestor L, LLC	04-1590850		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
WP-SC, LLC*	26-4441097		Delaware
MSP-SC, LLC	04-1590850		Delaware
Country Club Office Plaza LLC*	27-1435692		Delaware
Fern Street LLC	37-1732913		Delaware
MassMutual Retirement Services, LLC	04-1590850		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Mezzanine Investor, LLC	04-1590850		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		United States
MMC Equipment Finance LLC	04-1590850		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2009-A	27-1379258		Delaware
MMAF Equipment Finance LLC 2011-A	45-2589019		Delaware
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
Pioneers Gate LLC	None		Delaware
MSC Holding Company, LLC	45-4376777		Delaware
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
MassMutual Holding LLC	04-2854319		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MassMutual Ventures LLC	47-1296410		Delaware
MM Caerulus Holdco US LLC	None		Delaware
MM Rothesay Holdco US LLC	04-1590850		Delaware
MML Investors Services, LLC	04-1590850		Massachusetts
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLISI Financial Alliances, LLC	41-2011634		Delaware
N. N. 17 177.0	04.0010700		D 1

MassMutual International LLC

<sup>\*</sup>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 Asia Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Asia Investors Ltd.	None		Hong Kong, Special Administrative Region of China
MassMutual Guardian Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Insurance Consultants Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Services Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Trustees Limited	None		Hong Kong, Special Administrative Region of China
Protective Capital (International) Limited	98-0610331		Hong Kong, Special Administrative Region of China
MassMutual Life Insurance Company	None		Japan
MassMutual Internacional (Chile) SpA	98-1033127		Chile
MM Asset Management Holding LLC	45-4000072		Delaware
Babson Capital Management LLC	51-0504477		Delaware
Babson Capital Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
Babson Capital Securities LLC	04-3238351		Delaware
Babson Capital Guernsey Limited	98-0437588		Guernsey
Babson Capital Management (UK) Limited	98-0432153		United Kingdom
Almack Mezzanine GP III Limited	None		United Kingdom
Almack Holding Partnership GP Limited	None		United Kingdom
Almack Mezzanine Fund Limited	None		United Kingdom
Almack Mezzanine Fund II Limited	None		United Kingdom
Babson Capital Global Advisors Limited	98-1012393		United Kingdom
Babson Capital Japan KK	None		Japan
Cornerstone Real Estate Advisers LLC	55-0878489		Delaware
Cornerstone Real Estate Advisers Inc.	04-3238351		California
Cornerstone Real Estate Advisers Japan K.K.	None		Japan
Cornerstone Real Estate UK Holdings Limited	None		Delaware
Cornerstone Real Estate UK (No. 2) Limited	98-0654401		United Kingdom
Cornerstone Real Estate Advisers Europe LLP	98-0654388		United Kingdom
Cornerstone Real Estate Advisers Europe Finance LLP	98-0654412		United Kingdom
PAMERA Cornerstone Real Estate Advisers GmbH	98-1194368		Germany
Babson Capital Management (Australia) Holding Company Pty Ltd.	None		Australia
Babson Capital Management (Australia) Pty Ltd.	98-0457456		Australia
Babson Capital Cornerstone Asia Limited	None		Hong Kong, Special Administrative Region of China
Wood Creek Capital Management LLC	04-1590850		Delaware
Wood Creek Index Company, LLC	26-3115362		Delaware
Milestone Acquisition Holding, LLC.	47-3055009		Delaware
Alchemy Copyrights, LLC.	None		Delaware
Red Lake Ventures, LLC	46-5460309		Delaware
Teaktree Acquisition, LLC	None		Delaware
Sweet Tree Holdings 1, LLC	46-3123110		Delaware

<sup>\*</sup>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
U.S. WIG Holdings, LP	46-1500495		Delaware
US Trailer Holdings LLC	90-0841497		Delaware
WC Aircraft Holdings US II, LLC	46-3378584		Delaware
Wood Creek Aircraft Holding I, LP	None		Cayman Islands
Babson Capital Floating Rate Income Fund Management, LLC	04-1590850		Delaware
Babson Capital Core Fixed Income Management LLC	27-3523916		Delaware
Babson Capital Total Return Management LLC	27-3524203		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
SDCOS Management LLC	04-1590850		Delaware
Great Lakes III GP, LLC	04-1590850		Delaware
Loan Strategies Management LLC	04-1590850		Delaware
Mezzco LLC	04-1590850		Delaware
Mezzco II LLC	02-0767001		Delaware
Mezzco III LLC	41-2280126		Delaware
Mezzco IV LLC	80-0920285		Delaware
Mezzco Australia LLC	90-0666326		Delaware
Mezzco Australia II	None		Delaware
Somerset Special Opportunities Management LLC	04-1590850		Delaware
Winterset Management LLC	04-1590850		Delaware
Oppenheimer Acquisition Corp.	84-1149206		Delaware
OppenheimerFunds, Inc.	13-2527171		Colorado
OppenheimerFunds Distributor, Inc.	13-2953455		New York
Oppenheimer Real Asset Management, Inc.	84-1106295		Delaware
OFI Global Institutional, Inc.	13-4160541		New York
OFI Global Trust Company	13-3459790		New York
HarbourView Asset Management Corporation	22-2697140		New York
Trinity Investment Management Corporation	25-1951632		Pennsylvania
OFI SteelPath, Inc.	84-1128397		Delaware
Shareholder Services, Inc.	84-1066811		Colorado
OFI Global Asset Management, Inc.	84-0765063		Delaware
OFI Private Investments Inc.	91-2036414		New York
Tremont Group Holdings, Inc.	62-1210532		New York
Tremont Partners, Inc.	06-1121864		Connecticut
Tremont Capital Management (Ireland) Limited	None		Ireland
Tremont GP, Inc.	20-8215352		Delaware
Settlement Agent LLC	90-0874510		Delaware
Tremont (Bermuda) Limited	None		Bermuda
MassMutual Baring Holding LLC	04-1590850		Delaware
Baring North America LLC	98-0241935		Massachusetts
MassMutual Holdings (Bermuda) Limited	None		Bermuda

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

## SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

		Federal Tax ID	NAIC Co Code	State of Domicile
Baring Asset Management Limited		98-0241935		United Kingdom
Baring International Investr	nent Limited	98-0457328		United Kingdom
Baring International Investr		98-0457587		United Kingdom
	anagement UK Holdings Limited	98-0457576		United Kingdom
	ing Asset Management GmbH	98-0465031		Germany
	ng Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong, Special Administrative Region of China
Build.	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
Barin	g International Fund Managers (Ireland) Limited	98-0524272		Ireland
Barin	ng Asset Management Switzerland Sàrl	None		Switzerland
Barin	ng SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Barin	g France SAS	98-0497550		France
Baring Fund Managers Lim		98-0457586		United Kingdom
Baring Pension Trustees Lin		98-0457574		United Kingdom
Baring Investment Services		98-0457578		United Kingdom
Baring Investments (UK) L	imited	None		United Kingdom
First Mercantile Trust Company		62-0951563		Tennessee
Haven Life Insurance Agency, Inc.		46-2252944		Delaware
MML Management Corporation		04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.		04-3548444		Massachusetts
Society of Grownups, LLC		47-1466022		Massachusetts
MML Mezzanine Investor II, LLC		04-1590850		Delaware
MML Mezzanine Investor III, LLC		04-1590850		Delaware
MassMutual External Benefits Group LLC MML Re Finance LLC		27-3576835		Delaware
Other Affiliates:		04-1590850		Delaware
Invicta Advisors LLC		56-2574604		Delaware
Jefferies Finance LLC*		27-0105644		Delaware
MML Private Equity Fund Investor LLC		04-1590850		Delaware
MM Private Equity Intercontinental LLC		04-1590850		Delaware
100 w. 3 <sup>rd</sup> Street LLC		04-1590850		Delaware
300 South Tryon Hotel LLC		04-1590850		Delaware
300 South Tryon LLC		04-1590850		Delaware
54 West Capital LLC		20-3887968		Delaware
Alexandria Towers Investors LLC		16-1720387		Delaware
Cambridge Hotel, LLC		06-1614196		Delaware
Cheyenne Mountain Resort LLC		04-1590850		Delaware
Cornerstone Partners IV LLC		71-0908077		Delaware

<sup>\*</sup>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.

	<u>Federal Tax ID</u>	NAIC Co Code State of Domic	<u>cile</u>
E-Wise Land Venture LLC	20-3887968	Delaware	
Kazwell Realty Partners LLC	20-3887968	Delaware	
King Alexander LLC	45-3754085	Delaware	
Marco Hotel LLC	46-4255307	Delaware	
MMI/BDI Riverside Mt. Vernon LLC	26-2704765	Delaware	
MML O'Hare Hotel LLC	26-3799762	Delaware	
Oakley Grove Development LLC	20-3887968	Delaware	
Old Pasco Properties LLC	20-3887968	Delaware	
Reston Arboretum LLC	75-2901061	Delaware	
Riva Portland LLC	30-0713071	Delaware	
Rockville Town Center LLC	54-2055778	Virginia	
Seattle 1415 Hotel Owner LLC	46-5491311	Delaware	
Sedona TFMP Land LLC	04-1590850	Delaware	
South Myrtle Monrovia MM LLC	04-1590850	Delaware	
South Pasco Properties LLC	20-3887968	Delaware	
West 46 <sup>th</sup> Street Hotel LLC	05-1590850	Delaware	
Babson Affiliates & Funds:			
Almack Mezzanine Fund I LP*	None	United Kingdom	
Almack Mezzanine Fund II Unleveraged LP	None	United Kingdom	
Almack Mezzanine Fund III LP*	None	United Kingdom	1
Babson Capital High Yield LLC*	55-0886109	Delaware	
Babson Capital Floating Rate Income Fund, L.P.	27-3330830	Delaware	
Babson Capital Global Special Situation Credit Fund 2*	98-1206017	Delaware	
Babson Capital Global Investment Funds plc	None	Ireland	
Babson Capital Global Investment Fund 2 plc	None	Ireland	
Babson Capital Global Umbrella Fund plc	None	Ireland	
Babson Capital Loan Strategies Fund, L.P.*	37-1506417	Delaware	
Babson CLO Ltd. 2005-I	None	Cayman Islands	
Babson CLO Ltd. 2005-II	None	Cayman Islands	
Babson CLO Ltd. 2005-III	None	Cayman Islands	
Babson CLO Ltd. 2006-I	None	Cayman Islands	
Babson CLO Ltd. 2006-II	None	Cayman Islands	
Babson CLO Ltd. 2007-I	None	Cayman Islands	
Babson CLO Ltd. 2011-I	None None	Cayman Islands	
Babson CLO Ltd. 2012-I	None None	Cayman Islands	
Babson CLO Ltd. 2012-II Babson CLO Ltd. 2013-I	None None	Cayman Islands Cayman Islands	
Babson CLO Ltd. 2013-1 Babson CLO Ltd. 2013-II	None 98-1128827	Cayman Islands Cayman Islands	
Babson CLO Ltd. 2013-11 Babson CLO Ltd. 2014-I	98-112882/ None	Cayman Islands Cayman Islands	
Babson CLO Ltd. 2014-1 Babson CLO Ltd. 2014-II	None None	Cayman Islands Cayman Islands	
Babson CLO Ltd. 2014-11 Babson CLO Ltd. 2014-1II	None None	Cayman Islands Cayman Islands	
Dauson CLO Ltd. 2014-III	None	Cayman Islands	

<sup>\*</sup>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.

PART 1 – ORGANIZATIONAL CHART

Federal Tax ID

NAIC Co Code

**State of Domicile** 

Netherlands

Netherlands

Massachusetts

Massachusetts

Cayman Islands

Cayman Islands Cayman Islands

Cayman Islands Cayman Islands

Cayman Islands

Cayman Islands

United Kingdom

United Kingdom

United Kingdom

United Kingdom United Kingdom

United Kingdom United Kingdom

United Kingdom

Cayman Islands

United Kingdom Cayman Islands

United Kingdom Cayman Islands

Cayman Islands

Delaware

Delaware Delaware

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Babson Euro CLO 2014-I BV	None	
Babson Euro CLO 2014-II BV	None	
Babson Global Floating Rate Fund	46-3133952	
Babson Global Income Opportunities Credit Fund	46-3119764	
Babson Mid-Market CLO Ltd. 2007-II	None	
Benton Street Partners I. L.P.*	98-0536233	
Benton Street Partners II, L.P.	98-0536199	
Clear Lake CLO, Ltd.	None	
Connecticut Valley Structured Credit CDO II, Ltd.	None	
Connecticut Valley Structured Credit CDO III, Ltd.	None	
Diamond Lake CLO, Ltd.	None	
Duchess I CDO S.A.	None	
Duchess III CDO S.A.	None	
Duchess IV CDO S.A.	None	
Duchess V CDO S.A.	None	
Duchess VI CLO B.V.	None	
Duchess VII CLO B.V.	None	
Fugu CLO B.V.	None	
Fugu Credit Plc	None	
Gateway Mezzanine Partners I, L.P.*	80-0691253	
Gateway Mezzanine Partners I Trust	None	
Gateway Mezzanine Partners II LP*	90-0991195	
Great Lakes II LLC*	71-1018134	
Great Lakes III, L.P.	37-1708623	
Great Lakes LLC*	56-2505390	
Intermodal Holding II LLC	46-2344300	
Malin CLO B.V.	None	
Newton CDO Ltd	None	
Rockall CLO B.V.	None	
Saint James River CDO, Ltd.	None	
Sapphire Valley CDO I, Ltd.	None	
SDCOS L.P.	74-3182902	
Somerset Special Opportunities Fund L.P.*	20-8856877	
Tower Square Capital Partners, L.P.*	04-3722906	
Tower Square Capital Partners II, L.P.*	30-0336246	
Tower Square Capital Partners II-A, L.P.*	32-0160190	
Tower Square Capital Partners III, L.P.*	41-2280127	
Tower Square Capital Partners IIIA, L.P.	41-2280129	
Tower Square Capital Partners IV, L.P.	80-0920340	
Tower Square Capital Partners IV-A, L.P.	80-0920367	
U.S. Trailer Holdings II LLC	46-2104352	

<sup>\*</sup>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
Vinacasa CLO, Ltd.	None		Cayman Islands
Whately CDO, Ltd.	None		Cayman Islands
Wood Creek Multi Asset Fund. L.P.	20-4981369		Delaware
Wood Creek Venture Fund LLC	04-1590850		Delaware
Baring Affiliates & Funds:			
Baring ACWI ex US (SRI) Equity Fund	27-3234744		Delaware
Baring All Country World ex US Equity Fund	45-4184261		Delaware
Baring Emerging Market Corp Debt Fund	None		Ireland
Baring Focused EAFE Equity Fund	11-3789446		Delaware
Baring Focused International Equity Fund	01-0850479		Delaware
Baring Global Dynamic Asset Allocation Fund	30-0607379		Delaware
Baring International Equity Fund	39-2059577		Delaware
Baring International Small Cap Equity Fund	26-4142796		Delaware
Baring World Equity Fund	46-1197222		Delaware
Multi-Employer Global Aggregate Diversified Portfolio	26-1896226		Delaware
Cornerstone Affiliates & Funds:			
12-18 West 55th Street Predevelopment, LLC*	20-2548283		Delaware
2 Harbor Shore Member LLC*	46-4803557		Delaware
20 Gates Management LLC	45-2738137		New York
21 West 86 LLC*	45-5257904		Delaware
Ygnatio Valley Funding	20-5481477		Delaware
AT Mid-Atlantic Office Portfolio LLC*	45-2779931		Delaware
Babson Mezzanine Realty Investors I*	20-4570515		Delaware
Babson Mezzanine Realty Investors II	24-1446970		Delaware
CHC/RFP VI Core LLC	04-1590850		Delaware
Cornerstone Core Mortgage Fund I LP	27-1701733		Delaware
Cornerstone Core Mortgage Venture I LP	27-1701622		Delaware
Cornerstone Enhanced Mortgage Fund I LP	45-3751572		Delaware
Cornerstone Fort Pierce Development LLC*	56-2630592		Delaware
Cornerstone Global Real Estate LP*	20-8730751		Delaware
Cornerstone High Yield Venture LP	36-4770946		Delaware
Cornerstone Hotel Income and Equity Fund II LP	26-1828760		Delaware
Cornerstone Patriot Fund LP	20-5578089		Delaware
Cornerstone Real Estate Fund VIII LP	27-0547156		Delaware
Cornerstone Permanent Mortgage Fund	45-2632610		Massachusetts
CREA 330 Third LLC*	46-5001122		Delaware
CREA FMF Nashville LLC	46-4367364		Delaware
CREA/LYON West Gateway, LLC*	26-2399532		Delaware
CREA/PPC Venture LLC*	20-0348173		Delaware
Fallon Cornerstone One MPD LLC*	26-1611591		Delaware
Farringdon London Holdings LLC*	46-3880526		Delaware

<sup>\*</sup>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 NA	AIC Co Code State of Domicile
Fan Pier Development LLC*	20-3347091	Delaware
Gracechurch London Holdings LLC*	46-1586427	Delaware
Infinity SCD Ltd.	None	United Kingdom
Johnston Groves LLC	20-4819358	Delaware
Metropolitan At Lorton*	20-5984759	Delaware
MM Greenhill Office LLC*	46-3317841	Delaware
MMI/Hines Harrison LLC*	46-5347643	Delaware
MM Woodfield Martingale LLC*	46-4077059	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware
Sawgrass Village Shopping Center LLC*	27-2977720	Delaware
SBNP SIA LLC	46-3465271	Delaware
Twenty Two Liberty LLC*	35-2484550	Massachusetts
UK LÍW 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
MassMutual Premier Funds:		
MassMutual Barings Dynamic Allocation Fund	45-3168892	Massachusetts
MassMutual Premier Balanced Fund	04-3212054	Massachusetts
MassMutual Premier Core Bond Fund	04-3277549	Massachusetts
MassMutual Premier Disciplined Growth Fund	04-3539084	Massachusetts
MassMutual Premier Disciplined Value Fund	04-3539083	Massachusetts
MassMutual Premier Diversified Bond Fund	04-3464165	Massachusetts
MassMutual Premier Focused International Fund	02-0754273	Massachusetts
MassMutual Premier Global Fund	51-0529334	Massachusetts
MassMutual Premier High Yield Fund	04-3520009	Massachusetts
MassMutual Premier Inflation-Protected and Income Fund	03-0532475	Massachusetts
MassMutual Premier International Equity Fund	04-3212044	Massachusetts
MassMutual Premier Main Street Fund	51-0529328	Massachusetts
MassMutual Premier Short-Duration Bond Fund	04-3212057	Massachusetts
MassMutual Premier Small/Mid Cap Opportunities Fund	04-3424705	Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251	Massachusetts
MassMutual Premier Value Fund	04-3277550	Massachusetts
MassMutual Select Funds:	27.1020272	
MassMutual Select Blackrock Global Allocation Fund	27-1028263	Massachusetts
MassMutual Select Blue Chip Growth Fund	04-3556992	Massachusetts
MassMutual Select Diversified International Fund	14-1980900	Massachusetts
MassMutual Select Diversified Value Fund	01-0821120	Massachusetts
MassMutual Select Focused Value Fund	04-3512590	Massachusetts

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

## SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

	Federal Tax ID	NAIC Co Code	State of Domicile
MassMutual Select Fundamental Growth Fund	04-3512593		Massachusetts
MassMutual Select Fundamental Value Fund	04-3584138		Massachusetts
MassMutual Select Growth Opportunities Fund	04-3512589		Massachusetts
MassMutual Select Large Cap Value Fund	04-3513019		Massachusetts
MassMutual Select Mid Cap Growth Equity II Fund	04-3512596		Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935		Massachusetts
MassMutual Select MSCI EAFE International Index Fund	45-5357167		Massachusetts
MassMutual Select Overseas Fund	04-3557000		Massachusetts
MassMutual Select PIMCO Total Return Fund	27-2377446		Massachusetts
MassMutual Select Russell 2000 Small Cap Index Fund	45-5366542		Massachusetts
MassMutual Select S&P 500 Index Fund	04-3410047		Massachusetts
MassMutual Select Small Cap Growth Equity Fund	04-3464205		Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954		Massachusetts
MassMutual Select Small Company Growth Fund	04-3584141		Massachusetts
MassMutual Select Small Company Value Fund	04-3584140		Massachusetts
MassMutual Select S&P Mid Cap Index Fund	45-5349772		Massachusetts
MassMutual Select Strategic Bond Fund	26-0099965		Massachusetts
MML Series Investment Funds:			
MML International Equity Fund	46-4257056		Massachusetts
MassMutual RetireSMART Funds:			
MassMutual RetireSMART 2010 Fund	03-0532456		Massachusetts
MassMutual RetireSMART 2015 Fund	27-1933828		Massachusetts
MassMutual RetireSMART 2020 Fund	03-0532467		Massachusetts
MassMutual RetireSMART 2025 Fund	27-1933753		Massachusetts
MassMutual RetireSMART 2035 Fund	27-1933389		Massachusetts
MassMutual RetireSMART 2040 Fund	03-0532471		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART 2050 Fund	26-1345332		Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207		Massachusetts
MassMutual RetireSMART Conservative Fund	45-1618155		Massachusetts
MassMutual RetireSMART Growth Fund	45-1618222		Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464		Massachusetts
MassMutual RetireSMART Moderate Fund	45-1618262		Massachusetts
MassMutual RetireSMART Moderate Growth Fund	45-1618046		Massachusetts
Oppenheimer Funds:			
HarbourView CLO 2006-1 Limited	None		Cayman Islands
HarbourView CLO VII, Ltd.	None		Cayman Islands
Oppenheimer Global High Yield Fund	45-3417590		Delaware
Oppenheimer Global Multi-Asset Income Fund	47-1714929		Delaware
Oppenheimer Global Real Estate Fund*	46-1604428		Delaware
Oppenheimer International Growth Fund	13-3867060		Massachusetts

<sup>\*</sup>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.

## 12.9

## SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

Oppenheimer Main Street Fund84-1073463MassachusettsOppenheimer Real Estate Fund22-3849391Massachusetts

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

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

	PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
											Type	If		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
						,	Massachusetts Mutual Life Insurance			Massachusetts Mutual Life Insurance			, , , , , , , , , , , , , , , , , , ,	
0435	Massachusetts Mut Life Ins Co	65935	04-1590850 .	3848388	0000225602		Company (MMLIC)	MA	UDP	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance	•			
0435	CM Life Ins Co	93432	06-1041383 .				C.M. Life Insurance Company	CT	RE	Company	Ownership.	100.000	MMLIC	
0435	MML Baystate Life Ins Co	70416	43-0581430 .		0000924777		MML Bay State Life Insurance Company	CT	NIA	C.M. Life Insurance Company	Ownership.	100.000	MMLIC	
0000			06-1041383				CML Mezzanine Investor, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			06-1041383				CML Mezzanine Investor L, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			06-1041383				CML Mezzanine Investor III, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000	]		06-1041383				CML Re Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000				l			CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
l										Massachusetts Mutual Life Insurance				
0000			04-1590850 .				MML Mezzanine Investor L, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
· · ·							,			Massachusetts Mutual Life Insurance				
0000							MML Special Situations Investor LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance	,	-		
0000			04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
							,			Massachusetts Mutual Life Insurance		-		
0000			26-4441097				WP-SC, LLC	DE	NIA	Company	Ownership	81.400	MMLIC	
0000			26-4441097				WP-SC. LLC	DE	NIA	C.M. Life Insurance Company	Ownership	18.600	MMLIC	
							,			Massachusetts Mutual Life Insurance				
0000			04-1590850 .				MSP-SC. LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance	,			
0000			27-1435692				Country Club Office Plaza LLC	DE	NIA	Company	Ownership	88. 100	MMLIC	
0000			27-1435692				Country Club Office Plaza LLC	DE	NIA	C.M. Life Insurance Company	Ownership	11.900	MMLIC	
							,			Massachusetts Mutual Life İnsurance	·			
0000			37-1732913				Fern Street LLC	DE	NIA	Company	Ownership	100.000	MML1C	
										Massachusetts Mutual Life Insurance	·			
0000			04-1590850 .				MassMutual Retirement Services, LLC	DE	NI A	Company	Ownership	100.000	MML1C	
										Massachusetts Mutual Life Insurance	·			
0000			04-3356880 .		0000943903		MML Distributors LLC	MA	NIA	Company	Ownership	99.000		
0000			04-3356880 .		0000943903		MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000		
										Massachusetts Mutual Life Insurance				
0000							MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			04-1590850 .				MML Mezzanine Investor, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			46-3238013 .				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			. 06-1563535 .	2881445	. 0001103653		The MassMutual Trust Company, FSB	US	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			04-1590850				MMC Equipment Finance LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000		[	26-0073611				MassMutual Asset Finance LLC	DE	NIA	MMC Equipment Finance LLC	Ownership	99.600	MMLIC	
0000			26-0073611 .				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400		
0000			27-1379258 .				MMAF Equipment Finance LLC 2009-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC	
0000			45-2589019 .				MMAF Equipment Finance LLC 2011-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC	
		1					MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance			l	
0000			. 04-1590850 .				LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			-				Pioneers Gate LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000		<u> </u>	45-4376777	.	1		MSC Holding Company, LLC	DE	NI A	Company	Ownership	100.000	MML1C	

## SCHEDULE Y

## PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM													
1	2	3	4	5	6	7	8	9	10	11	12	13	14 15
											Туре	If	
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											(Ownership,	is	
						Name of Securities			Relation-		Board,	Owner-	
						Exchange		Domi-	ship		Management,	ship	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s) *
0000			04-3341767				MassMutual Holding MSC, Inc.	MA	NI A	MSC Holding Company, LLC	Ownership	100.000	MML I C
										Massachusetts Mutual Life Insurance			
0000			. 04-2854319 .	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC
0000			. 06-1597528 .		000400000		MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000			. 04-1590850 .		0001399869		MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000			47-1296410				MassMutual Ventures LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000			04 1500050				MM Caerulus Holdco US LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000		-	. 04-1590850 . 04-1590850		0000701059		MM Rothesay Holdco US LLC	DE	NIA NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000		-	. 04-1590850 .		. 10000701059		MML Investors Services, LLC	MA	NIA	MML Investors Services, LLC	Ownership		MMLIC
0000		-	41-2011634		0001456663		MMLISI Financial Alliances. LLC	MA DE	NIA	MML Investors Services, LLC	Ownership	51.000	MMLIC
0000			. 04-3313782				MassMutual International LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC
0000			. 07-00 10/02				MassMutual Asia Limited	bE	IA	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	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC
0000							MassMutual Trustees Limited	HKG	NIA		Ownership	80.000	MMLIC
							Protective Capital (International) Limited			massmataar Asra Ermittea	owner strip		
0000			. 98-0610331				Trotostivo supritur (mtornationar) Emiritor	HKG	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC
0000							MassMutual Life Insurance Company	JPN	IA	MassMutual International LLC	Ownership	100.000	MMLIC
0000			98-1033127				MassMutual Internacional (Chile) SpA	CHL	NIA	MassMutual International LLC	Ownership	100.000	MMLIC
0000			45-4000072				MM Asset Management Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC
0000			51-0504477		0000009015		Babson Capital Management LLC	DE	NIA	MassMutual Asset Management Holding LLC _	Ownership	_100.000 _	MMLIC
0000			80-0875475				Babson Capital Finance LLC	DE	NIA	Babson Capital Management LLC	Ownership	_100.000	MMLIC
0000							BCF Europe Funding Limited	JRL	NIA	Babson Capital Finance LLC	Ownership	100.000	MMLIC
0000			. 04-3238351 .		0000930012		Babson Capital Securities LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC
0000			. 98-0437588 .				Babson Capital Guernsey Limited	GGY	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC
0000			98-0432153				Babson Capital Mangement (UK) Limited	GBR	NIA	Babson Capital Guernsey Limited	Ownership	100.000	MMLIC
0000							Almack Mezzanine GP III Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC
0000							Almack Holding Partnership GP Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC
0000							Almack Mezzanine Fund Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC
0000		-					Almack Mezzanine Fund II Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC
0000			98-1012393	-	.		Babson Capital Global Advisors Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MML IC
0000			l	l			Babson Capital Japan KK	JPN	NIA	Babson Capital Management LLC	Ownership	100.000	MML IC
0000			. 55-0878489 .	3456895	. 0001379495		Cornerstone Real Estate Advisers LLC	DE	NI A	Babson Capital Management LLC	Ownership	100.000	MMLIC
0000			. 04-3238351 .	3456895	. 0001011148		Cornerstone Real Estate Advisers Inc.	CA	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC
0000					1		Cornerstone Real Estate Advisers Japan	IDV	NI A	0	0	400 000	100
0000							K.K.	JPN	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC
0000					1		Cornerstone Real Estate UK Holdings	DE	NIA	Communitation Deal Fatata Advisage 11.0	O	100 000	INII IO
0000		-					Cornerstone Real Estate UK (No. 2) Limited	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC
0000			98-0654401		1		Connectione Hear Estate UK (No. 2) Limited	GBR	MILA	Cornerstone Real Estate UK Holdings	Ownership	100,000	MMLIC
0000		-	. 30-0004401 .				Cornerstone Real Estate Advisers Europe	MBK	NIA	Cornerstone Real Estate UK Holdings	Ownership	. 100.000	WWILTU
0000			. 98-0654388 .		1		LLP	GBR	NIA	Limited	Ownership	100.000	MML1C
0000			. 30-0034388 .				Cornerstone Real Estate Advisers Europe	אסע	N I A	Cornerstone Real Estate UK Holdings	OWITE STITP		WWILTO
0000			98-0654412		1		Finance LLP	GBR	NIA	Limited	Ownership	100.000	MMLIC
0000			. 30-0034412 .				PAMERA Cornerstone Real Estate Advisers	חטוע	NIM	Cornerstone Real Estate UK Holdings	OHIIG1 2111P		WITH I V
0000			98-1194368		1		GmbH	DEU	NIA	Limited	Ownership	100.000	MMLIC
0000			. 000-1104000				Babson Capital Management (Australia)	DLU			οπιοι στιτρ		
0000					1		Holding Company Pty Ltd.	AUS	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC
0000		.					Thorumy company rty Ltu	MUO	IN I M	wanayement LLO	Omition 9111h	.	WITHLE I V

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						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC		l <sub>-</sub>		if Publicly Traded	Names of	ciliary	to	D: 11 O . 11 11	Attorney-in-Fact,	Provide		
Group	G 11	Company	ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	_
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	
							Babson Capital Management (Australia) Pty			Babson Capital Australia Holding Company				
0000			. 98-0457456 .				Ltd.	AUS	NIA	Pty Ltd.	Ownership	100.000	- MMLIC	
0000							Babson Capital Cornerstone Asia Limited	HKG	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			. 04-1590850 .				Wood Creek Capital Management LLC	DE DE	NIA	Babson Capital Management LLC	Ownership	100.000	.MMLIC	
0000			. 26-3115362 .				Wood Creek Index Company, LLC	VE	NIA	Wood Creek Capital Management LLC Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC	
0000							Alahamu Caussiahta IIC	DE	NIA	Company	Ownership	15.100	MMLIC	
0000							Alchemy Copyrights, LLC.	DE	NIA	Wood Creek Capital Management LLC	Management	13. 100	MMLIC	
0000							Archemy copyrights, LLC.	VE	NIA	Massachusetts Mutual Life Insurance	management		. INMILIO	
0000			47-3055009				Milestone Acquisition Holding, LLC	DE	NIA	Company	Ownership	19.400	MML1C	
0000			47-3055009				Milestone Acquisition Holding, LLC.	DE	NIA	Wood Creek Capital Management LLC	Influence	19.400	MMLIC	
0000			. 47-3033009 .				milestone Acquisition noturng, LLC.		NI /\	Massachusetts Mutual Life Insurance	IIII Tuelice		- INWILTO	
0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Company	Ownership	31.500	MMLIC	
0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
,0000			. 10 0100000 .				Thea Lake Ventares, LLO			Massachusetts Mutual Life Insurance	THI Tuchoc		WILL TO	
0000			46-3123110				Sweet Tree Holdings 1, LLC	DE	NIA	Company	Ownership	16, 100	MMLIC	
0000			46-3123110				Sweet Tree Holdings 1, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence	10. 100	MMLIC	
5000			. 10 0120110				orocc from horaringo 1, EEO			Massachusetts Mutual Life Insurance	THI TUCHOO			.
0000							Teaktree Acquisition, LLC	DE	NIA	Company	Ownership	14.700	MMLIC	
0000							Teaktree Acquisition, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	,
0000			46-1500495				U.S. WIG Holdings, LP	DE	NIA	Wood Creek Capital Management LLC	Ownership.	11.700	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			90-0841497				US Trailer Holdings LLC	DE	NIA	Company	Ownership	19.200	MMLIC	
0000			90-0841497				US Trailer Holdings LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC	
							Ĭ			Massachusetts Mutual Life Insurance				
0000			46-3378584				WC Aircraft Holdings US II, LLC	DE	NI A	Company	Ownership	17.900	MML1C	
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	
							Babson Capital Floating Rate Income Fund							
0000			. 04-1590850 .		0001501011		Management, LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
							Babson Capital Core Fixed Income							
0000			27-3523916		0001503878		Management LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
							Babson Capital Total Return Management LLC							
0000			27-3524203		0001503879			DE		Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			. 98-0536233 .				Benton Street Advisors, Inc.	CYM DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			. 04-1590850 . 04-1590850 .				SDCOS Management LLC	DE	NIA NIA	Babson Capital Management LLCBabson Capital Management LLC	Ownership	100.000	MMLICMMLIC	-
0000			04-1590850				Loan Strategies Management LLC	DE		Babson Capital Management LLC	Ownership	.100.000	MMLIC	
0000			04-1590850				Mezzco LLC	DE	NIA NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			02-0767001				Mezzco II LLC	DE	NIA	Babson Capital Management LLC	Ownership	98.400	MMLIC	
0000			41-2280126				Mezzco III LLC	DE	NIA	Babson Capital Management LLC	Ownership	99.300	MMLIC	.
0000			. 80-0920285 .				Mezzco IV LLC	DE		Babson Capital Management LLC	Ownership.	99.300	MMLIC	.
0000			90-0666326				Mezzco Australia LLC	DE		Babson Capital Management LLC	Ownership.	72.000	MMLIC	.
0000			. 00 0000020 .				Mezzco Australia II	DE	NIA	Babson Capital Management LLC	Ownership.	100.000	MMLIC	
55000							Somerset Special Opportunities Management			Sasson oup tur managomorit LLO	S			
0000			04-1590850				LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			04-1590850				Winterset Management LLC	DE		Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			84-1149206	2897101			Oppenheimer Acquisition Corp.	DE	NIA	MassMutual Asset Management Holding LLC	Ownership	_95.800	MMLIC	
0000			13-2527171	2679183	0000820031		OppenheimerFunds, Inc.	CO		Oppenheimer Acquisition Corp.	Ownership	100.000	MMLIC	
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						Name of Securities			Relation	-	Board,	Owner-	
						Exchange		Domi-	ship		Management,	ship	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reportin	g Directly Controlled by	Influence,	Percen-	Ultimate Controlling
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s) *
0000			. 13-2953455		0000276541	·	OppenheimerFunds Distributor, Inc.	NY	NIA	OppenheimerFunds, Inc.	Ownership	100.000	MMLIC
0000			84-1106295				Oppenheimer Real Asset Management, Inc	DE	NIA	OppenheimerFunds, Inc.	Ownership	100.000	
0000			. 13-4160541	3458125	. 0001179479		OFI Global Institutional, Inc.	NY	NI A	OppenheimerFunds, Inc.	Ownership	100.000	
										OFI Institutional Asset Management, Inc.			
0000			. 13-3459790	2914875			OFI Global Trust Company	NY	NIA		Ownership	100.000	MMLIC
										OFI Institutional Asset Management, Inc.			
0000			. 22-2697140				HarbourView Asset Management Corporation	NY	NIA		Ownership	100.000	MMLIC
										OFI Institutional Asset Management, Inc.			
0000			25-1951632		0000099782		Trinity Investment Management Corporation .	PA	NIA		Ownership	100.000	
0000			. 84-1128397		0000857468		OFI SteelPath, Inc.	DE	NIA	OppenheimerFunds, Inc.	Ownership	100.000	
0000			84-1066811		0000276398		Shareholder Services, Inc.	CO	NIA	OppenheimerFunds, Inc.	Ownership	100.000	
0000			. 84-0765063		0001041674		OFI Global Asset Management, Inc	DE	NI A	OppenheimerFunds, Inc	Ownership	100.000	
0000			. 91–2036414		0001179480		OFI Private Investments Inc.	NY	NI A	OppenheimerFunds, Inc.	Ownership	100.000	
0000			. 62-1210532				Tremont Group Holdings, Inc.	NY	NIA	Oppenheimer Acquisition Corp	Ownership	100.000	
0000			. 06-1121864		0000764139		Tremont Partners, Inc.	CT	NIA	Tremont Group Holdings, Inc	Ownership	100.000	
							Tremont Capital Management (Ireland)						
0000							Limited	JRL	NIA	Tremont Group Holdings, Inc.	Ownership	100.000	
0000			20-8215352				Tremont GP, Inc.	DE	NI A	Tremont Group Holdings, Inc	Ownership	100.000	
0000			90-0874510				Settlement Agent LLC	DE	NI A	Tremont Group Holdings, Inc	Ownership	100.000	
0000							Tremont (Bermuda) Limited	BMU	NI A	Tremont Group Holdings, Inc	Ownership	100.000	
0000			. 04-1590850				MassMutual Baring Holding LLC	DE	NIA	MassMutual Asset Management Holding LLC .	Ownership	100.000	
0000			98-0241935	2363071	0000932463		Baring North America LLC	MA	NIA	MassMutual Baring Holding LLC	Ownership	100.000	
0000							MassMutual Holdings (Bermuda) Limited	BMU	NIA	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	NIA	Baring Asset Management Limited	Ownership	100.000	
							Baring International Investment Management						
0000			. 98-0457587				Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC
0000			00 0457570				Baring Asset Management UK Holdings	GBR	NII A	Baring International Investment	0	400 000	188.10
0000			. 98-0457576				Limited	UBK	NIA	Management Holdings	Ownership	100.000	
0000			98-0465031				Baring Asset Management GmbH	DEU	NIA	Baring Asset Management UK Holdings Limited	O	100,000	MMLIC
0000			98-0463031						NIA		Ownership	100.000	NINIL 10
0000			98-0524271				Baring Asset Management (Asia) Holdings Limited	HKG	NIA	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC
			30-UJ24211				Baring International Fund Managers		NIA	Baring Asset Management (Asia) Holdings	Owner Strip	100.000	
0000			98-0457465			1	(Bermuda) Limited	BMU	NIA	Limited	Ownership	100.000	MMLIC
0000			30-0437403				(Dermuda) Limited	VWU	NI M	Baring Asset Management (Asia) Holdings	Omiter Strip	100.000	
0000			98-0457463			1	Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership	100.000	MMLIC
0000							Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership.	100.000	MLIC
0000							Darring Accel management Norca Elimited			Baring Asset Management (Asia) Holdings	S		
0000			98-0236449			1	Baring Asset Management (Japan) Limited	JPN	NIA	Limited	Ownership	100.000	MMLIC
							Baring Asset Management (Australia) Pty			Baring Asset Management (Asia) Holdings			
0000			98-0457456				Limited	AUS	NIA	Limited	Ownership	_100.000 _	MMLIC
							Baring International Fund Managers	1		Baring Asset Management UK Holdings			
0000		l	98-0524272	l	1	l	(Ireland) Limited	JRL	NIA	Limited	Ownership	100.000	MMLIC
			1							Baring Asset Management UK Holdings			
0000			.]	l	l		Baring Asset Management Switzerland Sarl	CHE	NIA	Limited	Ownership	100.000	MML1C
			1				J			Baring Asset Management UK Holdings			
0000		l	98-0457707	l	1		Baring SICE (Taiwan) Limited	JWN	NIA	Limited	Ownership	100.000	MMLIC
			1							Baring Asset Management UK Holdings			
0000			98-0497550				Baring France SAS	_FRA	NIA	Limited	Ownership	100.000	MMLIC
0000			98-0457586				Baring Fund Managers Limited	_GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC

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											of Control	Control		
									<b>.</b>		(Ownership,	is		
						Name of Securities		D:	Relation	-	Board,	Owner-		
		NAIC				Exchange if Publicly Traded	Names of	Domi- ciliary	ship to		Management, Attorney-in-Fact,	ship Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reportin	g Directly Controlled by	Influence,	Provide Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000	aroup Hamo	0000	98-0457574	ПООВ	O.i. C	intornational)	Baring Pension Trustees Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	- MMLIC	+
0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC	
0000							Baring Investments (UK) Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000		
0000			62-0951563 .	1160004	. 0001259664		First Mercantile Trust Company	TN	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			46-2252944 .				Haven Life Insurance Agency, Inc	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			04-2443240 .				MML Management Corporation	MA	NI A	MassMutual Holding LLC	Ownership	. 100.000	MMLIC	
0000			04 0540444				MassMutual International Holding MSC, Inc.		ALLA	MAR Management Communities	0h :	400 000	MMLIC	
0000			04-3548444 <sub>-</sub> 47-1466022 <sub>-</sub>				Conjety of Crawping IIC	MA	NIA	MML Management Corporation	Ownership	100.000	MMLIC	
		-	41-1400022 .				Society of Grownups, LLC	MA	NIA	Massachusetts Mutual Life Insurance	Ownership	.  100.000	WWILTO	
0000			04-1590850 .				MML Mezzanine Investor II, LLC	DE	NIA	Company	Ownership	100.000		
5000							man more and the state of the s			Massachusetts Mutual Life Insurance	omior on p			
0000			04-1590850 .				MML Mezzanine Investor III, LLC	DE	NIA	Company	Ownership	100.000		
							, , , , , , , , , , , , , , , , , , , ,			Massachusetts Mutual Life Insurance				
0000			27-3576835 .				MassMutual External Benefits Group LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-1590850				MML Re Finance LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 56-2574604 .				Invicta Advisors LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
0000			27-0105644 .				Jefferies Finance LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	45.000	MMLIC	4
0000			27-0105644				Jefferies Finance LLC	. DE	NIA	Babson Capital Management LLC	Ownership	5.000	MMLIC	
0000			27 0100044 .				OCTION CONTINUES ELO			Massachusetts Mutual Life Insurance	Offici dirip.	0.000	WINE TO	
0000			04-1590850		0000067160		MML Private Equity Fund Investor LLC	DE	NIA	Company	Ownership	100.000		
0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	MML Private Equity Fund Investor LLC	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				100 w. 3rd Street LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				300 South Tryon Hotel LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
0000			04-1590850				200 South Truen IIC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100,000	MM IC	
0000			. 04-1590850 .				300 South Tryon LLC	UE	NIA	CompanyMassachusetts Mutual Life Insurance	Ownership	100.000	MMLIC	
0000			20-3887968				54 West Capital LLC	DE	NIA	Company	Ownership	100,000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			16-1720387				Alexandria Towers Investors LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 06-1614196 .				Cambridge Hotel, LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
								1		Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				Cheyenne Mountain Resort LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			71-0908077				Corporatora Partnera IV II C	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC	
		-	11000011				Cornerstone Partners IV LLC		NI A	Company	Ownership		INMIL I C	.
0000			20-3887968				E-Wise Land Venture LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
							- 1.55 Edila folitaro EE			Massachusetts Mutual Life Insurance	5			
0000			20-3887968 .				Kazwell Realty Partners LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-3754085 .				King Alexander LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
***			40 40							Massachusetts Mutual Life Insurance				
0000			46-4255307 .				Marco Hotel LLC	DE	NIA	Company	Ownership	100.000	MMLIC	-
0000			00 0704705				MILL (DDL Diverside Mt. Version LLC	סר	B11 A	Massachusetts Mutual Life Insurance	O-manah i	100 000	18# 10	
0000		. [	26-2704765				MMI/BDI Riverside Mt. Vernon LLC	DE	NIA	Company	Ownership	100.000	MMLIC	-

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		NAIC				Name of Securities Exchange if Publicly Traded	Names of	Domi- ciliary	Relation- ship to		(Ownership, Board, Management, Attorney-in-Fact,	is Owner- ship Provide	
Group Code	Group Name	Company	ID Number	Federal RSSD	CIK	(U.S. or International)	Parent, Subsidiaries Or Affiliates	Loca- tion	Reporting Entity	Directly Controlled by (Name of Entity/Person)	Influence, Other)	Percen- tage	Ultimate Controlling Entity(ies)/Person(s) *
0000			. 26-3799762 .				MML O'Hare Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC
0000			. 20-3887968 .				Oakley Grove Development LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC
0000			20-3887968 .				Old Pasco Properties LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC
0000			75-2901061 .				Reston Arboretum LLC	DE	NIA	Massachusetts Mutual Life Insurance Company Massachusetts Mutual Life Insurance	Ownership	. 100.000	MMLIC
0000			. 30-0713071 .				Riva Portland LLC	DE	NIA	Massachusetts Mutual Life Insurance  Company	Ownership	100.000	MMLIC
0000			. 54-2055778 .				Rockville Town Center LLC	VA	NIA	Company	Ownership	100.000	
0000			. 46-5491311 .				Seattle 1415 Hotel Owner LLC	DE	NIA	Company	Ownership	100.000	MML1C
0000			. 04-1590850 .				Sedona TFMP Land LLC	DE	NIA	Company	Ownership	100.000	MMLIC
0000			. 04-1590850 .				South Myrtle Monrovia MM LLC	DE	NIA	Company	Ownership	100.000	MMLIC
0000			. 20-3887968 .				South Pasco Properties LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC
0000			. 04–1590850 .				West 46th Street Hotel LLCAlmack Mezzanine Fund   LP	DE	NIA	Company Massachusetts Mutual Life Insurance Company	Ownership.		MML1C
0000							Almack Mezzanine Fund   LP	GBR GBR	NIA NIA	C.M. Life Insurance Company	Ownership	. 4.000	MMLIC
0000			-				Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	73.100	MMLIC
0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Babson Capital Europe Limited	Management		MMLIC
0000							Almack Mezzanine Fund III LPAlmack Mezzanine Fund III LP	GBR	NIA NIA	Company	Ownership	34.300	MMLIC
0000							Almack Mezzanine Fund III LP	GBR	NIA	Babson Capital Europe Limited Massachusetts Mutual Life Insurance	Management		MMLIC
0000			. 55-0886109 . 55-0886109 . 55-0886109 .		0001321302 0001321302 0001321302		Babson Capital High Yield LLC Babson Capital High Yield LLC Babson Capital High Yield LLC	DE DE DE	NIA NIA	Company	Ownership		
0000			27-3330830		0001321302		Babson Capital High Yield LLC Babson Capital Floating Rate Income Fund, I P	DE	NIA	MassMutual Holding LLC	Management	10.300	MMLIC
0000			27-3330830		0001521404		Babson Capital Floating Rate Income Fund, L.P.	DE	NIA	Babson Capital Management LLC	Management.		MMLIC
0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	92.800	MMLIC
0000			. 98-1206017 .				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC
0000			. 98-1206017 .				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	Babson Capital Management LLC	Management		MML1C
0000					0001502146		Babson Capital Global Investment Funds plc Babson Capital Global Investment Fund 2	JRL	NIA	Massachusetts Mutual Life Insurance Company Massachusetts Mutual Life Insurance	Ownership	0.500	MMLIC
0000					0001582591		pauson capital Giobal Investment Fund 2 plc	JRL	NIA	Massachusetts Mutual Life Insurance  Company	Ownership	5.400	MMLIC

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						Name of Securities			Relatio	on-	Board,	Owner-			
						Exchange		Domi-	ship		Management,	ship			
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide			
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporti	ing Directly Controlled by	Influence,	Percen-		Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity		Other)	tage		Entity(ies)/Person(s)	*
0000	Group Hamo	0000	140111001	11000	Unit	intornational	Babson Capital Global Investment Fund 2	11011		(Name of Entity) of only	00101)	tago		Emity(100)/1 Groom(0)	-
0000					0001582591		nlc	JRL	NIA	Babson Capital Management LLC	Management		MMLIC		
0000					. 0001302331		P16			Massachusetts Mutual Life Insurance	management		WIVIL 10		
0000					0001515694		Babson Capital Global Umbrella Fund plc	JRL	NIA		Ownership	46.100	MMLIC		
0000					0001515694		Babson Capital Global Umbrella Fund plc	JRL	NIA.		Management	40. 100	MMLIC		
0000					. 0001010004		Dabson capital Grobal Gibrella Luid pic		INI /\	Massachusetts Mutual Life Insurance	management		WWILTO		
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA		Ownership	73.000	MMLIC		
0000			37-1506417		-		Babson Capital Loan Strategies Fund, L.P.	DE	NIA.		Ownership	3.600	MMLIC		
0000			37-1506417		- [ ]		Babson Capital Loan Strategies Fund, L.P.	DE	NIA		Management	0.000	MMLIC		
0000			37 - 1300417	1	- [ ]		Babson CLO Ltd. 2005-1	CYM	NIA.		Influence		MMLIC		
0000					-		Babson CLO Ltd. 2005-1	CYM	NIA		Influence	-	MMLIC		
0000					-		Babson CLO Ltd. 2005-11	CYM	NIA		Influence	-	MMLIC		3
0000					-		Babson CLO Ltd. 2005-111	CYM	NIA NIA.		Influence.		MMLIC		د
0000							Babson CLO Ltd. 2006-1	CYM	NIA NIA.		Influence		MMLIC		7
0000							Babson CLO Ltd. 2008-11	CYM	NIA		Influence		MMLIC		8
0000							Babson CLO Ltd. 2007-1	CYM	NIA		Influence		MMLIC		0
0000							Babson CLO Ltd. 2011-1	CYM	NIA		Influence		MMLIC		
					-						Influence		MMLIC		
0000					-		Babson CLO Ltd. 2012-II	CYM	NIA		Influence		MMLIC		
0000					-		Babson CLO Ltd. 2013-I	CYM	NI A	Babson Capital Management LLC	Influence		MMLIC		11
0000			98–1128827	-			Babson CLO Ltd. 2013-II		NI A						12
0000							Babson CLO Ltd. 2014-I	CYM	NI A		Influence		MMLIC		
0000							Babson CLO Ltd. 2014-II	CYM	NIA		Influence		MMLIC		
0000							Babson CLO Ltd. 2014-III	CYM	NIA		Influence		MMLIC		
0000							Babson Euro CLO 2014-I BV	NLD	NIA	Babson Capital Management LLC	Influence		MMLIC		
0000							Babson Euro CLO 2014-II BV	NLD	NIA		Influence		MMLIC		
0000			46-3133952	-			Babson Global Floating Rate Fund	MA	NIA		Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-3133952	-			Babson Global Floating Rate Fund	MA	NI A	Company	Ownership	40.500	MMLIC		
							Babson Global Income Opportunities Credit								
0000			46-3119764	-			Fund	MA	NIA		Management		MMLIC		
							Babson Global Income Opportunities Credit			Massachusetts Mutual Life Insurance					
0000			46-3119764				Fund	MA	NIA		Ownership	69.000	MMLIC		
0000					-		Babson Mid-Market CLO Ltd. 2007-II	CYM	NIA		Influence		MMLIC		2
0000			98-0536233		- [ ]		Benton Street Partners I, L.P.	CYM	NIA		Ownership	97.700	MMLIC		
0000			98-0536233	-	-		Benton Street Partners I, L.P.	CYM	NIA		Management		MMLIC		
0000			98-0536233		-		Benton Street Partners I, L.P.	CYM	NIA		Ownership	0.100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			98-0536233	-			Benton Street Partners I, L.P.	CYM	NIA		Ownership	2.200	MMLIC		
0000			98-0536199				Benton Street Partners II, L.P.	CYM	NIA		Ownership	98.800	MMLIC		5
0000							Clear Lake CLO, Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC		
							Connecticut Valley Structured Credit CDO								
0000					.		II, Ltd	CYM	NIA.	Babson Capital Management LLC	Influence	.	MMLIC		9
							Connecticut Valley Structured Credit CDO								
0000							III. Ltd.	CYM	NIA		Influence		MMLIC		
0000							Diamond Lake CLO, Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC		4
0000				4007418			Duchess I CDO S.A.	GBR	NIA		Influence		MMLIC		
0000				4007445			Duchess III CDO S.A.	GBR	NIA.	Babson Capital Management LLC	Influence		MMLIC		
0000							Duchess IV CDO S.A.	GBR	NIA.	Babson Capital Management LLC	Influence		MMLIC		
0000							Duchess V CDO S.A.	GBR	NIA	Babson Capital Management LLC	Influence		MMLIC		
0000				3981641			Duchess VI CLO B.V.	GBR	NIA		Influence		MMLIC		
0000			1	4007502			Duchess VII CLO B.V.	GBR	NIA		Influence		MMLIC		
							DOG   100 VEV D.   1   1   1   1   1   1   1   1   1	ـــــا الاسدـــــــــــــــــــــــــــــــــــ		Dayour oup rtur murityollitt LLO		-			

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											(Ownership,	is		
						Name of Securities			Relation	n-	Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reportin	ng Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Ėntity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000						·	Fugu CLO B.V.	GBR	NIA	Babson Capital Management LLC	Influence		- MMLIC	6
0000							Fugu Credit Plc	GBR	NIA	Babson Capital Management LLC	Influence		MMLIC	6
										Massachusetts Mutual Life Insurance				
0000			. 80-0691253 .		0001517196		Gateway Mezzanine Partners I, L.P	DE	NIA	Company	Ownership	81.200		
0000			80-0691253 .		0001517196		Gateway Mezzanine Partners I, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	10.000		
0000			80-0691253 .		0001517196		Gateway Mezzanine Partners I, L.P	DE	NIA	MassMutual Holding LLC	Ownership	8.800	MMLIC	
0000			80-0691253 .		0001517196		Gateway Mezzanine Partners I, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000							Gateway Mezzanine Partners I Trust	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Company	Ownership	39.400		
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC	
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	MassMutual Holding LLC	Ownership	6.100	MMLIC	
0000			. 90-0991195 .		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
							,			Massachusetts Mutual Life Insurance				
0000			71-1018134				Great Lakes II LLC	DE	NIA	Company	Ownership	11.200	MMLIC	
0000			71-1018134				Great Lakes II LLC	DE	NIA	C.M. Life Insurance Company	Ownership	1.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			37-1708623 .		0001565779		Great Lakes III, L.P.	DE	NIA	Company	Ownership	35.700		
0000			37-1708623 .		0001565779		Great Lakes III, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
							·			Massachusetts Mutual Life Insurance				
0000			. 56-2505390 .				Great Lakes LLC	DE	NIA	Company	Ownership	4.400	MMLIC	
0000			. 56-2505390 .				Great Lakes LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.500	MMLIC	
0000			46-2344300 .				Intermodal Holdings II LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
0000							Malin CLO B.V.	GBR	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Newton CDO Ltd	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Rockall CLO B.V.	GBR	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Saint James River CDO, Ltd	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Sapphire Valley CDO I, Ltd	CYM	NIA		Influence		. MMLIC	10
										Massachusetts Mutual Life Insurance				
0000			. 74-3182902 .				SDCOS L.P.	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			. 74-3182902 .				SDCOS L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			20-8856877 .		0001409910		Somerset Special Opportunities Fund L.P		NIA		Ownership	44.600	MMLIC	
0000			. 20-8856877 .		0001409910		Somerset Special Opportunities Fund L.P		NIA	C.M. Life Insurance Company	Ownership	2.100	. MMLIC	
0000		[	. 20-8856877 .		0001409910		Somerset Special Opportunities Fund L.P	DE	NIA	Babson Capital Management LLC	Management		. MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000		·	. 04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA	Company	Ownership	42.700		
0000			. 04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	0.700	MMLIC	
0000			. 04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			. 04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA	MassMutual Holding LLC	Ownership	2.500	. MMLIC	
		1							,	Massachusetts Mutual Life Insurance				
0000			30-0336246		0001345379		Tower Square Capital Partners II, L.P.	DE	NIA	Company	Ownership	25.800		
0000			. 30-0336246 .		0001345379		Tower Square Capital Partners II, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership	2.200	- MMLIC	
0000		·	. 30-0336246 .		0001345379		Tower Square Capital Partners II, L.P.	DE	NIA	Babson Capital Management LLC	Management		- MMLIC	
0000		·	. 30-0336246 .		0001345379		Tower Square Capital Partners II, L.P.	DE	NIA		Ownership	4.500	. MMLIC	
		1							,	Massachusetts Mutual Life Insurance				
0000			. 32-0160190 .				Tower Square Capital Partners II-A, L.P		NIA	Company	Ownership	77.000		
0000			. 32-0160190 .				Tower Square Capital Partners II-A, L.P		NIA	C.M. Life Insurance Company	Ownership	13.600		
0000			. 32-0160190 .				Tower Square Capital Partners II-A, L.P		NIA	Babson Capital Management LLC	Management		. MMLIC	
0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.		NIA	Babson Capital Management LLC	Management		. MMLIC	
0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	DE	NIA	MassMutual Holding LLC	Ownership	3.000	MMLIC	

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											Type	lf		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
										Massachusetts Mutual Life Insurance				
0000			41-2280127 .		. 0001447547 .		Tower Square Capital Partners III, L.P	DE	NI A	Company	Ownership	18.900	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			41-2280129 .		. 0001447548 .		Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership	86.300	MMLIC	
0000			41-2280129		. 0001447548 .		Tower Square Capital Partners IIIA, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			80-0920340		. 0001597019 .		Tower Square Capital Partners IV, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			80-0920367		. 0001598727 .		Tower Square Capital Partners IV-A, L.P	DE	NIA	MassMutual Holding LLC	Ownership	22.000	MMLIC	
0000			80-0920367		0001598727 .		Tower Square Capital Partners IV-A, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000		-	46-2104352				U.S. Trailer Holdings II LLC	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000		-					Vinacasa CLO, Ltd.	CYML CYM	NIA	Babson Capital Management LLC	Influence	-	MMLIC	
0000							Whately CDO, Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MML1C	
0000			00 4004000		0004074004		Ward Oracle Malti Accet Front L. D.	DE	ALLA	Massachusetts Mutual Life Insurance	0	.100.000	MMLIC	
0000			. 20-4981369 . 20-4981369 .		. 0001371601 . . 0001371601 .		Wood Creek Multi Asset Fund, L.P.		NIA	Company	Ownership	100.000		
0000			20-4981369 .		. 0001371601 .		Wood Creek Multi Asset Fund, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			04-1590850				Wood Creek Venture Fund LLC	DE	ALLA	Massachusetts Mutual Life Insurance Company	Ownership	40.000	MMLIC	
0000			27-3234744				Baring ACWI ex US (SRI) Equity Fund	DE	NIA NIA	Baring Asset Management Limited	Management	40.000	MMLIC	
0000			21-3234144				Baring All Country World ex US Equity Fund	UE	NIA	Dairing Asset Management Limited	management		WINLIC	
0000			45-4184261		0001547286		Baring All Country World ex US Equity Fund	DE	NIA	Baring Asset Management Limited	Influence		MMLIC	
0000			45-4104201 .		. 0001347200 .			UE	NI A	Massachusetts Mutual Life Insurance	Initiaerice		MMLTC	
0000							Baring Emerging Market Corp Debt Fund	JRL	NIA	Company	Ownership	84.300	MMLIC	
0000							Baring Emerging Market Corp Debt Fund	JRL	NIA	Baring Asset Management Limited	Management.	04.000	MMLIC	
0000							Darring Linergring marker our best rund			Massachusetts Mutual Life Insurance	management			
0000			11-3789446				Baring Focused EAFE Equity Fund	DE	NIA	Company	Ownership	43.600	MMLIC	
0000			11-3789446				Baring Focused EAFE Equity Fund	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
0000			01-0850479		0001443715		Baring Focused International Equity Fund	DE	NIA	Baring Asset Management Limited	- Management		MMLIC	
							Baring Global Dynamic Asset Allocation			Massachusetts Mutual Life Insurance				
0000			30-0607379 .		0001497049		Fund	DE	NIA	Company	Ownership	89.900	MMLIC	
							Baring Global Dynamic Asset Allocation							
0000			30-0607379 .		. 0001497049 .		Fund	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
0000			39-2059577 .		. 0001491482 .		Baring International Equity Fund	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
							Baring International Small Cap Equity Fund			Massachusetts Mutual Life Insurance				
0000			26-4142796					DE	NIA	Company	Ownership	100.000	MMLIC	
							Baring International Small Cap Equity Fund							
0000			26-4142796 .					DE	NI A	Baring Asset Management Limited	Management		MMLIC	
0000			46-1197222 .				Baring World Equity Fund	DE	NI A	Baring Asset Management Limited	Influence		MMLIC	
							Multi-Employer Global Aggregate							
0000			26-1896226 .				Diversified Portfolio	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
							12-18 West 55th Street Predevelopment, LLC			Massachusetts Mutual Life Insurance				
0000			. 20-2548283				40.40 W 1.55H 01 1.5	DE	NIA	Company	Ownership	88.400	MMLIC	
0000			00 05 10000				12-18 West 55th Street Predevelopment, LLC	DE	A/ A	0 N 1 i f 1 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O manata i	7 700	188 10	
0000		-	20-2548283		-			DE	NIA	C.M. Life Insurance Company	Ownership	7.700	MMLIC	
0000			40 4000555				O Harbara Ohana Harbara 11 O	DE	A/ - A	Massachusetts Mutual Life Insurance	O manata i	04 000	188 10	
0000			46-4803557				2 Harbor Shore Member LLC	DE	NIA	Company	Ownership	91.000	MMLIC	
0000			. 46–4803557 .				2 Harbor Shore Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	9.000	MMLIC	
0000			45-2738137				20 Catao Managament II C	NY	MIA		Ownership	00 000	MMLIC	
0000			. 45-2/3813/ .				20 Gates Management LLC	NY	NIA	Company	Ownership	88.000	MMLIU	
0000			45-5257904				21 West 86 LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	91.300	MMLIC	
0000			45-5257904				21 West 86 LLC	DE	NIA NIA	C.M. Life Insurance Company	Ownership	4.800	MMLIC	
0000		.		.1	.	1	ILI HEST OF FED	I UC	INIA	IV.M. LITE INSULATED COMPANY	I OMINGI SITIP		IMMETO	

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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000	Group Hamo	0000	140111001	HOOD	O.I.V	momatorial	Of 7 timated	11011	Linky	Massachusetts Mutual Life Insurance	Calony	lago	Entity (100)/1 orden(0)	+
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	
0000			. 40 2110001 .				AT MIN ACTAINED OFFICE FOR CIOTO LEC		NI //	Massachusetts Mutual Life Insurance	owner strip		WWL10	
0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	DE	NIA	Company	Ownership.	35.900		
0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	DE	NIA	C.M. Life Insurance Company	Ownership.	1.900	MMLIC	
0000			20-4570515		0001362970		Babson Mezzanine Realty Investors I	DE	NIA	Cornerstone Real Estate Advisers LLC	Management.	1.900	MMLIC	
0000			20-43/03/3		0001302370		Dabson wezzannie nearty investors i	UE	NIA	Massachusetts Mutual Life Insurance	management		WWILTO	
0000			24-1446970		0001362970		Debese Memorine Dealty Investore II	DE	NIA	Company	O	60.700	MMLIC	
0000			24-1446970		0001362970		Babson Mezzanine Realty Investors II	DE DE	NIA		Ownership	00.700	MMLIC	
0000			24-1446970 .		0001362970		Badson Mezzanine Healty Investors II	UE	NIA	Cornerstone Real Estate Advisers LLC	management		MML10	
0000			04 4500050				OHO (DED. VII. O III.O.	DE	NILA	Massachusetts Mutual Life Insurance	0	100,000	18.0	
0000			04-1590850 .				CHC/RFP VI Core LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			27-1701733 .		0001481753		Cornerstone Core Mortgage Fund   LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
										Massachusetts Mutual Life Insurance		·		
0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture I LP	DE	NIA	Company	Ownership	50.000	MMLIC	
0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
0000			45-3751572		0001534877		Cornerstone Enhanced Mortgage Fund   LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	15.900	MMLIC	
										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			20-8730751 .				Cornerstone Global Real Estate LP	DE	NIA	Company	Ownership	92.300	MMLIC	
0000			20-8730751 .				Cornerstone Global Real Estate LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.600	MMLIC	
0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NIA	Company	Ownership	50.000		
0000			36-4770946 .		0001590049		Cornerstone High Yield Venture LP	DE	NI A	. Cornerstone Real Estate Advisers LLC	Management		MMLIC	
							Cornerstone Hotel Income & Equity Fund II			Massachusetts Mutual Life Insurance				
0000			26-1828760 .		0001423638		LP	DE	NIA	Company	Ownership	16.900	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			20-5578089 .				Cornerstone Patriot Fund LP	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			27-0547156				Cornerstone Real Estate Fund VIII LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	12.700	MMLIC	
										Massachusetts Mutual Life Insurance	·			
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance	·			
0000			46-5001122				CREA 330 Third LLC	DE	NIA	Company	Ownership	92.000	MMLIC	
0000			46-5001122				CREA 330 Third LLC	DE	NIA	C.M. Life Insurance Company	Ownership	8.000	MMLIC	
										Massachusetts Mutual Life Insurance	1			
0000			46-4367364				CREA FMF Nashville LLC	DE	NIA	Company	Ownership.	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			26-2399532				CREA/LYON West Gateway, LLC	DE	NIA	Company	Ownership	54.000	MMLIC	
0000			26-2399532				CREA/LYON West Gateway, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC	
										Massachusetts Mutual Life Insurance	3p			
0000			20-0348173				CREA/PPC Venture LLC	DE	NIA	Company	Ownership	93.400	MMLIC	
0000			20-0348173				CREA/PPC Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	6.600	MMLIC	.
000			. 20 0040173 .				VILLIVITO TOTALIO LEO			Massachusetts Mutual Life Insurance	omioi dirip			.
0000			26-1611591 .	3956836			Fallon Cornerstone One MPD LLC	DE	NIA	Company	Ownership	61.400	MMLIC	
0000			. 26-1611591 . . 26-1611591 .	3956836			Fallon Cornerstone One MPD LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	6.100	MMLIC	
0000			. 1011091 .	0000000			ration connerstone one MPD LLC	E	IN I A	Massachusetts Mutual Life Insurance	owner strip	0. 100	WML I U	
0000			20-3347091				For Bior Dovolonment IIC	DE	NU A		Ownership	88.800	MMLIC	
0000				-			Fan Pier Development LLC		NIA	Company	Ownership			-
0000			20-3347091				Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	8.800	MMLIC	_

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						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	*
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
										Massachusetts Mutual Life Insurance				
0000			46-3880526 .				Farringdon London Holdings LLC	DE	NIA	Company	Ownership	94.500	MMLIC	
0000			46-3880526 .				Farringdon London Holdings LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.500	MMLIC	
0000			40 4500407				On a subsect London Heldings HO	DE	NII A	Massachusetts Mutual Life Insurance	0h:	00 000	18# 10	
0000			46-1586427 .				Gracechurch London Holdings LLC	DE	NIA	Company	Ownership	96.000	MMLIC	
0000			46-1586427 .				Gracechurch London Holdings LLC	DE	NIA	C.M. Life Insurance Company	Ownership	4.000	MMLIC	
0000							Infinity CCD Ltd	GBR	NIA		Ownership	4 200	MMLIC	
0000							Infinity SCD Ltd	אסע	NIA	Company	Ownership	4.200		
0000			20-4819358				Johnston Groves LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	57.200	MMLIC	
0000			48 19338 .				JOHNSTON GLOVES LLC	VE	N I A	Massachusetts Mutual Life Insurance	Ownership	57 . 200		
0000			20-5984759 .				Metropolitan At Lorton	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	93.500	MMLIC	
0000			20-5984759 .				Metropolitan At Lorton	DE	NIA NIA	C.M. Life Insurance Company	Ownership.	6.500	MMLIC	-
0000			. 20-3304138 .				אופנו טףט וונמוו אנ בטונטוו	UE	NI /\	Massachusetts Mutual Life Insurance	United SITIP	0.300	WINLIV	
0000			46-3317841				MM Greenhill Office LLC	DE	NIA	Company	Ownership	81.000	MMLIC	
0000			46-3317841				MM Greenhill Office LLC	DE	NIA	C.M. Life Insurance Company	Ownership	19.000	MMLIC	
0000			40 001/041				www.dreeimiiii oiiiide EEG	UL		Massachusetts Mutual Life Insurance	Owner strip	10.000		
0000			46-5347643				MMI/Hines Harrison LLC	DE	NIA	Company	Ownership	92.000	MMLIC	
0000			46-5347643				MMI/Hines Harrison LLC	DE	NIA	C.M. Life Insurance Company	Ownership	8.000	MMLIC	
0000			. 40 0047040 .				WWW.7111103 Harrison LEO			Massachusetts Mutual Life Insurance	- Offici Strip-	0.000	WINE TO	
0000			46-4077059 .				MM Woodfield Martingale LLC	DE	NIA	Company	Ownership	80.400	MMLIC	
0000			46-4077059				MM Woodfield Martingale LLC	DE	NIA.	C.M. Life Insurance Company	Ownership.	19.600	MMLIC	
							Salomon Brothers Commercial Mortgage Trust							
0000							2001-MM	DE	NIA	Cornerstone Real Estate Advisers LLC	Influence		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	Company	Ownership	84.200	MMLIC	
0000			27-2977720 .				Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company	Ownership	15.800	MMLIC	
0000			46-3465271 .				SBNP SIA LLC	DE	NI A	Cornerstone Real Estate Advisers LLC	Influence		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			35-2484550 .				Twenty Two Liberty LLC	MA	NI A	Company	Ownership	69.600	MMLIC	
0000			35-2484550 .				Twenty Two Liberty LLC	MA	NI A	C.M. Life Insurance Company	Ownership	6.900	MMLIC	
0000			45 40005:3					DE		Massachusetts Mutual Life Insurance		4 000		
0000			45-4606547 .				UK LIW Manager LLC	DE	NIA	Company	Ownership	1.000	MMLIC	
0000			4E 4000E47				IIV I IW Mankan I I C	DE	AII A	Massachusetts Mutual Life Insurance	Ownership	00.000	18/1/10	
0000			45-4606547 .				UK LIW Member LLC	VE	NI A	Company	Ownership	99.000		
0000			45-5401109 .				Washington Cataway Apartments Ventur- 110	DE	NI A		Ownership	91.000	MML1C	
0000			45-5401109 .				Washington Gateway Apartments Venture LLC . Washington Gateway Apartments Venture LLC .	DE	NIA NIA	Company	Ownership.	4.800	MMLIC	-
0000			0-0401109 .				masimigron dateway Apartiments venture LLC .	UE	NI /\	Massachusetts Mutual Life Insurance	United SITIP	4.000	WINLIV	
0000			20-2970495				Waterford Development Associates	DE	NIA	Company	Ownership	90.000	MMLIC	
			20,0100							Massachusetts Mutual Life Insurance				
0000			47-1993493				Waterloo London Holdings LLC	DE	NIA	Company	Ownership	_100.000 _	MMLIC	
	]									Massachusetts Mutual Life Insurance			]	-
0000	]		46-3122029 .	l			WeHo Domain LLC	DE	NIA	Company	Ownership	86.000	MMLIC	
0000			46-3122029				WeHo Domain LLC	DE	NIA	C.M. Life Insurance Company	Ownership	14.000	MMLIC	
										Massachusetts Mutual Life Insurance	,			
0000			20-5481477 .				Ygnatio Valley Funding	DE	NIA	Company	Ownership	90.000	MMLIC	
1							MassMutual Barings Dynamic Allocation Fund			Massachusetts Mutual Life Insurance				
0000			45-3168892 .			OQ		MA	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-3212054		0000927972	00	MassMutual Premier Balanced Fund	MA	NI A	Company	Ownership	6.800	MMLIC	

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						Exchange		Domi-	ship		Management,	ship		
		NAIC	ID.			if Publicly Traded	Names of	ciliary	to	D: " O . " !!	Attorney-in-Fact,	Provide	1.1112	
Group	Group Name	Company	ID	Federal RSSD	CIK	(U.S. or International)	Parent, Subsidiaries Or Affiliates	Loca- tion	Reporting Entity	Directly Controlled by (Name of Entity/Person)	Influence, Other)	Percen-	Ultimate Controlling Entity(ies)/Person(s)	*
Code	Group Name	Code	Number	หออบ	CIK	international)	Or Allillates	tion	Entity	Massachusetts Mutual Life Insurance	Other)	tage	Entity(les)/Person(s)	
0000			04-3277549 .		0000927972	00	MassMutual Premier Core Bond Fund	MA	NIA	Company	Ownership	2.000	MMLIC	
			04 02/1040 .		0000021012	- Ou	massmataar Fremrer oore bona rana			Massachusetts Mutual Life Insurance	owner strip		WILL TO	
0000			04-3539083		0000927972	00	MassMutual Premier Disciplined Value Fund	MA	NIA	Company	Ownership	8.400	MMLIC	
							MassMutual Premier Disciplined Growth Fund			Massachusetts Mutual Life Insurance				
0000			04-3539084 .		0000927972	00		MA	NIA	Company	Ownership	10.600	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-3464165 .		0000927972 _	. 0Q	MassMutual Premier Diversified Bond Fund	MA	NIA	Company	Ownership	92.800	MMLIC	
0000		1	00 075 1070		0000007070	00	MassMutual Premier Focused International	l		Massachusetts Mutual Life Insurance		0.000		
0000			02-0754273 .		0000927972	. 00	Fund	MA	NIA	Company	Ownership	0.000	MMLIC	
0000		1	51-0529334		0000927972	00	MassMutual Premier Global Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	57.400	MMLIC	
0000			. 31-0323334 .		0000321312	.   04	wasswutuai Fiemiei Giobai Fund	IWA	NI A	Massachusetts Mutual Life Insurance	Owner Sirrp			
0000			04-3520009		0000927972	00	MassMutual Premier High Yield Fund	MA	NIA	Company	Ownership.	16.700	MMLIC	
							MassMutual Premier Inflation-Protected and			Massachusetts Mutual Life Insurance				
0000			03-0532475		0000927972	0Q	Income Fund	MA	NIA	Company	Ownership	9.900	MMLIC	
							MassMutual Premier International Equity			Massachusetts Mutual Life Insurance				
0000			. 04-3212044 .		0000927972	. OQ	Fund	MA	NIA	Company	Ownership	4 . 100	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			51-0529328 .		0000927972	. 00	MassMutual Premier Main Street Fund	MA	NIA	Company	Ownership	59.800	MMLIC	
							MassMutual Premier Short-Duration Bond			Massachusetts Mutual Life Insurance				
0000			04-3212057 .		0000927972	. OQ	Fund	MA	NIA	Company	Ownership	61.800	MMLIC	
0000			04-3224705 .		0000927972	00	Opportunities Fund	MA	NIA	Company	Ownership	11,400	MMLIC	
0000			04 0224700 .		0000321312	. 04	MassMutual Premier Strategic Emerging	IW/\		Massachusetts Mutual Life Insurance	Owner Sirip		I IIII	
0000			26-3229251		0000927972	00	Markets Fund	MA	NIA	Company	Ownership	34.700	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-3277550 .		0000927972	. 00	MassMutual Premier Value Fund	MA	NIA	Company	Ownership	98.100	MMLIC	
							MassMutual Select Blackrock Global			Massachusetts Mutual Life Insurance				
0000			27-1028263 .		0000916053	. 0Q	Allocation Fund	MA	NIA	Company	Ownership	20.100	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-3556992 .		0000916053	. 00	MassMutual Select Blue Chip Growth Fund	MA	NIA	Company	Ownership	5.100	MMLIC	
0000			14-1980900 .		0000916053	00	MassMutual Select Diversified International Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	97.000	.MML IC	
0000			. 14-1300300 .		25000 60003	.   004	International Fund	WA	IN I M	Massachusetts Mutual Life Insurance	Owner SITP	000		
0000			01-0821120 .		0000916053	00	MassMutual Select Diversified Value Fund	MA	NIA	Company	Ownership	41.500	MML1C	
							The state of the s			Massachusetts Mutual Life Insurance			]	
0000			04-3512590 .		0000916053	. OQ	MassMutual Select Focused Value Fund	MA	NIA	Company	Ownership	3.600	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-3512593 .		0000916053	. OQ	MassMutual Select Fundamental Growth Fund .	MA	NIA	Company	Ownership	99.800	MMLIC	
0000			04 0501105		0000010055	00				Massachusetts Mutual Life Insurance		4	188 10	
0000			04-3584138 .		0000916053	. OQ	MassMutual Select Fundamental Value Fund	MA	NIA	Company	Ownership	4.000	MMLIC	
0000			04 0540500		0000046050	00	MassMutual Select Growth Opportunities Fund	MA	MILA	Massachusetts Mutual Life Insurance	Ownership	1 000	IMILIO	
0000			. 04-3512589 .		0000916053	.   04	Fullu	MA	NIA	Company	Ownership	1.800	MMLIC	
0000			04-3513019 .		0000916053	00	MassMutual Select Large Cap Value Fund	MA	NIA	Company	Ownership	5.000	MMLIC	
							MassMutual Select Mid Cap Growth Equity II			Massachusetts Mutual Life Insurance				
0000			04-3512596 .		0000916053	0Q	Fund	MA	NIA	Company	Ownership	1.600	MMLIC	
1										Massachusetts Mutual Life Insurance	,			
0000			42-1710935		0000916053 _	00	MassMutual Select Mid-Cap Value Fund	MA	NIA	Company	Ownership	99.800	MML1C	

				PAF	11 1 <i>F</i>	4 - DE I AIL	_ OF INSURANCE	. 171	/LUII	NG COMPAINT S	O I O I EIVI			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
					-				-		Type	If		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC		l <u>-</u>		if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group	O N	Company	, ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	*
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	
0000			45-5357167 .		0000916053	00	MassMutual Select MSCI EAFE International Index Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	0.900	MMLIC	
0000			45-5557 167 .		0000910055		Tridex Furid	NA	NI A	Massachusetts Mutual Life Insurance	Owner Strip	0.900	. MMLIC	
0000			04-3557000 .		0000916053	00	MassMutual Select Overseas Fund	MA	NIA	Company	Ownership	4.500	MMLIC	
							macomataa sorot ovoroda rana			Massachusetts Mutual Life Insurance	omor on p			
0000			27-2377446 .		0000916053	0Q	MassMutual Select PIMCO Total Return Fund	MA	NIA	Company	Ownership	56.300	MMLIC	
							MassMutual Select Russell 2000 Small Cap			Massachusetts Mutual Life Insurance	·			
0000			45-5366542		0000916053	00	Index Fund	MA	NIA	Company	Ownership	1.700	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04–3410047 .		0000916053	00	MassMutual Select S&P 500 Index Fund	MA	NI A	Company	Ownership	2.700	MMLIC	
0000			04 040 : 225		00000 1005	00	MassMutual Select Small Cap Growth Equity			Massachusetts Mutual Life Insurance		F 600		
0000			. 04-3464205 .		0000916053	00	Fund	MA	NIA	Company	Ownership	5.900	MMLIC	
0000			02-0769954 .		0000916053	00	MassMutual Select Small Capital Value Equity Fund	MA	NIA	Massachusetts Mutual Life Insurance	O	99.900	MMLIC	
0000			. 02-0769954 .		0000916053	04	MassMutual Select Small Company Growth	MA	NIA	Company	Ownership	99.900		
0000			04-3584141		0000916053	00	Fund	MA	NIA	Company	Ownership	_100.000	MMLIC	
0000			. 104 0004141 .		00000 10000		MassMutual Select Small Company Value Fund			Massachusetts Mutual Life Insurance	omeranip		- IIIIIE 10	
0000			04-3584140 .		0000916053	00	macomataar serest omarr company raras rana	MA	NIA	Company	Ownership	2.200	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-5349772 .		0000916053	0Q	MassMutual Select S&P Mid Cap Index Fund	MA	NIA	Company	Ownership	3.700	MMLIC	
							•			Massachusetts Mutual Life Insurance	·			
0000			26-0099965 .		0000916053	00	MassMutual Select Strategic Bond Fund	MA	NIA	Company	Ownership	4.400	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			46-4257056 .		0000067160		MML International Equity Fund	MA	NIA	Company	Ownership	16.600	MMLIC	
0000			00 0500450		0000040050		W W L L D L: 0WDT 0040 F			Massachusetts Mutual Life Insurance		7 000	188.10	
0000			. 03-0532456 .		0000916053		MassMutual RetireSMART 2010 Fund	MA	NIA	Company Massachusetts Mutual Life Insurance	0wnership	7.000	MMLIC	
0000			27-1933828 .		0000916053		MassMutual RetireSMART 2015 Fund	MA	NIA	Company	Ownership	7.500	MMLIC	
0000			. 21-1900020 .		00003 10033		wasswutuai netiieswani 2013 Fuliu	IWA	NI A	Massachusetts Mutual Life Insurance	Owner Strip		I WMLTO	
0000			03-0532467		0000916053		MassMutual RetireSMART 2020 Fund	MA	NIA	Company	Ownership	0.000	MMLIC	
							2020 1 414			Massachusetts Mutual Life Insurance				
0000			27-1933753 .		0000916053		MassMutual RetireSMART 2025 Fund	MA	NIA	Company	Ownership	2.800	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			27-1933389 .		0000916053		MassMutual RetireSMART 2035 Fund	MA	NIA	Company	Ownership	3.700	MMLIC	
										Massachusetts Mutual Life Insurance			l	
0000			. 03-0532471 .		0000916053		MassMutual RetireSMART 2040 Fund	MA	NIA	Company	Ownership	5.900	MMLIC	
0000			07 1000700		0000010050		Nace Matural Dating CHART 2045 Fund	144	ALLA	Massachusetts Mutual Life Insurance	Ownership	10.000	IMIL I C	
0000			. 27-1932769 .		0000916053		MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	. 13.800	MMLIC	
0000			26-1345332		0000916053		MassMutual RetireSMART 2050 Fund	MA	NIA	Company	Ownership	13.000	MMLIC	
0000			. 20 1040002 .				massmatuar netri comniti 2000 Funu	mA	IN I M	Massachusetts Mutual Life Insurance	omici sittp	10.000	. IIIIL I V	
0000			46-3289207		0000916053		MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	23.000	MMLIC	
									****	Massachusetts Mutual Life Insurance				1
0000			45-1618155 .		0000916053		MassMutual RetireSMART Conservative Fund	MA	NIA	Company	Ownership	63.000	MMLIC	
										Massachusetts Mutual Life Insurance	·			
0000			45-1618222 .		0000916053		MassMutual RetireSMART Growth Fund	MA	NIA	Company	Ownership	62.600	MMLIC	
1			L							Massachusetts Mutual Life Insurance			l	
0000			. 03-0532464 .		0000916053		MassMutual RetireSMART In Retirement Fund	MA	NIA	Company	Ownership	0.000	MMLIC	
0000			45 4040000		0000040050		No No. 1 - D Line OWART No. 1 1 - 5		ALLA	Massachusetts Mutual Life Insurance	O manufaci	00 400	188 10	
0000			45-1618262		0000916053		MassMutual RetireSMART Moderate Fund	MA	NIA	Company	Ownership	23.400	MML1C	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
											Type	lf		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
					_		MassMutual RetireSMART Moderate Growth			Massachusetts Mutual Life Insurance			3( ): (- )	+
0000			45-1618046		0000916053		Fund	MA		Company	Ownership	54.400	IMMLIC	
0000							HarbourView CLO 2006-1 Limited	CYM	NIA	OppenheimerFunds, Inc.	Influence		MMLIC	
0000							HarbourView CLO VII, Ltd.	CYM		OppenheimerFunds, Inc.	Influence		MMLIC	
0000			45-3417590		0001530245		Oppenheimer Global High Yield Fund	DE		OppenheimerFunds, Inc.	Ownership	77.300	MMLIC	
							777			Massachusetts Mutual Life Insurance				
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE		Company	Ownership	47.100	IMMLIC	
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE		C.M. Life Insurance Company	Ownership	3.900	MMLIC	
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DF		OppenheimerFunds, Inc.	Management		MM IC	
										Massachusetts Mutual Life Insurance				
0000			13-3867060		0001005728		Oppenheimer International Growth Fund	MA		Company	Ownership	0.000	IMMLIC	
										Massachusetts Mutual Life Insurance				
0000			84-1073463		0001116894		Oppenheimer Main Street Fund	MA		Company	Ownership	1.500	IMMLIC	
							Oppenheimer Global Multi-Asset Income Fund			Massachusetts Mutual Life Insurance				
0000			47-1714929					DE		Company	Ownership	99.000	IMMLIC	
			1							Massachusetts Mutual Life Insurance			1	
0000			22-3849391		0001163166		Oppenheimer Real Estate Fund	MA		Company	Ownership	1.900	MMLIC	
										,				

Asterisk	Explanation
1 Massachusetts	Mutual Life Insurance Company owns 4.05% of the affiliated debt of Jefferies Finance LLC
2 Debt investors	s own 18.8% and include Connecticut Valley Structured Credit CDO IV, Ltd., Babson CLO Ltd. 2006—II, Babson CLO Ltd. 2007—I, Babson Capital Loan Strategies Fund, L.P., and Sapphire Valley CDO I, Ltd.
3 Debt investors	s own 21.6% and include Connecticut Valley Structured Credit CDO III, Ltd.I, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2006—II, Babson CLO Ltd. 2007—I, and Babson Mid—Market CLO Ltd. 2007—II
4 Debt investors	s own 1.5% and include Sapphire Valley CDO I, Ltd.
5 Partnership in	nvestors own 99% and include Babson Loan Strategies Fund, L.P.
6 Fugu Credit PI	c owns 100% of the Fugu CLO B.V. assets
7 Debt investors	s own 12.8% and include Sapphire Valley, Babson Capital Loan Strategies Fund, L.P., Babson CLO Ltd. 2007-I, and Babson Mid-Market CLO Ltd. 2007-II
8 Debt investors	s own 10.0% and include Connecticut Valley CLO Fund IV, Ltd. and Babson Capital Loan Strategies Fund, L.P.
9 Debt investors	s own 91.8% and include Connecticut Valley Structured Credit CDO III, Ltd. and Connecticut Valley CLO Fund IV, Ltd.
10 Debt investors	s own 53.7% and includes only Babson Capital Loan Strategies Fund, L.P.
11 Debt investors	s own 5.2% and include Great Lakes III, L.P. and Babson Capital Loan Strategies Fund, L.P.
12 Debt investors	s own 6.5% and include Great Lakes III. L.P.

### SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

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

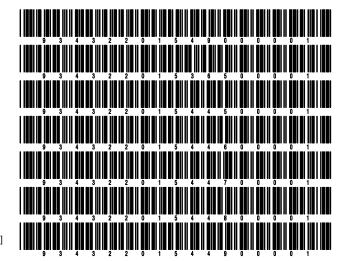
		Response
1.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2.	Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3.	Will the Reasonableness of Assumptions Certification required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

Explanation:

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

Bar Code:

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



# **OVERFLOW PAGE FOR WRITE-INS**

Additional Write-ins for Liabilities Line 25

Addition	aditional write-ins for Elabilities Line 25					
		1	2			
		Current	December 31			
		Statement Date	Prior Year			
2504.	Funds awaiting escheat	1,575,766	1,304,462			
2505.	Miscellaneous liabilities	78,888	31,379			
2597.	Summary of remaining write-ins for Line 25 from overflow page	1,654,654	1,335,841			

## **SCHEDULE A - VERIFICATION**

Real Estate

		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year	24, 171,011	26,991,662
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		5,417,187
	2.2 Additional investment made after acquisition		615,985
3.	Current year change in encumbrances		(2,991,186)
4.	Total gain (loss) on disposals	1,283,641	(226,098)
5.	Deduct amounts received on disposals	25,454,652	4,556,098
6.	Total foreign exchange change in book/adjusted carrying value		
7.	Deduct current year's other than temporary impairment recognized		
8.	Deduct current year's depreciation		1,080,441
9.	Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)		24, 171,011
10.	Deduct total nonadmitted amounts		
11.	Statement value at end of current period (Line 9 minus Line 10)		24,171,011

## **SCHEDULE B - VERIFICATION**

Mortgage Loans

		1	2
		V . D .	Prior Year Ended
		Year to Date	December 31
1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	944,390,174	861, 172,071
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition	32,226,049	194,507,772
	2.2 Additional investment made after acquisition	3,595,041	12,209,609
3.	2.1 Actual cost at time of acquisition     2.2 Additional investment made after acquisition     Capitalized deferred interest and other	180,011	297,920
4.	Accrual of discount	16,616	158,890
5.	Unrealized valuation increase (decrease)		
6.	Total gain (loss) on disposals  Deduct amounts received on disposals	(17,500)	70,262
7.	Deduct amounts received on disposals	24,674,319	118,820,599
8.	Deduct amortization of premium and mortgage interest points and commitment fees	48,474	342,773
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest	(3,853,437)	(4,862,978)
10.	Deduct current year's other than temporary impairment recognized		
11.	Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	951,814,161	944,390,174
12.	Total valuation allowance		
13.	Subtotal (Line 11 plus Line 12)	951,814,161	944,390,174
14.	Deduct total nonadmitted amounts		
15.	Statement value at end of current period (Line 13 minus Line 14)	951,814,161	944,390,174

## **SCHEDULE BA - VERIFICATION**

Other Long-Term Invested Assets

	-	1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year	232,592,855	256,538,483
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition	15,071,000	3,200,321
	2.2 Additional investment made after acquisition	8,223,896	33,569,945
3.	Capitalized deferred interest and other		
4.	Accrual of discount		
5.	Unrealized valuation increase (decrease)  Total gain (loss) on disposals	1,049,213	24,782,334
6.	Total gain (loss) on disposals		1,890,471
7.	Deduct amounts received on disposals	10,751,891	86,277,298
8.	Deduct amortization of premium and depreciation	1,998	8,844
9.	Deduct amortization of premium and depreciation	(728,242)	(1, 102, 557)
10.	Deduct current year's other than temporary impairment recognized		
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	245,454,833	232,592,855
12.	Deduct total nonadmitted amounts	3,365,182	3,699,144
13.	Statement value at end of current period (Line 11 minus Line 12)	242,089,651	228,893,711

#### **SCHEDULE D - VERIFICATION**

Bonds and Stocks

		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value of bonds and stocks, December 31 of prior year	4,555,765,734	4,925,869,944
2.	Cost of bonds and stocks acquired	201,833,382	1, 172, 377, 078
3.	Accrual of discount		
4.	Unrealized valuation increase (decrease)	5,522,039	18,670,476
5.	Total gain (loss) on disposals	3,964,837	47,474,883
6.	Deduct consideration for bonds and stocks disposed of	123,979,157	1,602,353,160
7.	Deduct amortization of premium	1,283,153	4,845,615
8.	Total foreign exchange change in book/adjusted carrying value	(13,842,552)	(18,263,356)
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)		
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	4,631,037,244	4,555,765,734

# **SCHEDULE D - PART 1B**

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

1	2	3	4	5	6	7	8
Book/Adjusted	Acquisitions	Dianositiana	Non Trading Activity	Book/Adjusted	Book/Adjusted	Book/Adjusted	Book/Adjusted
Beginning	Acquisitions During	Dispositions	During	End of	End of	End of	Carrying Value December 31
of Current Quarter	Current Quarter	Current Quarter	Current Quarter	First Quarter	Second Quarter	Third Quarter	Prior Year
2,134,344,078	106,929,531	48,619,042	5,906,352	2,198,560,919			2, 134, 344, 078
1,892,500,588	1,477,223,020	1,465,856,212	(17,030,579)	1,886,836,817			1,892,500,588
204,257,500	11,957,463	10, 158, 362	9,813,762	215,870,363			204,257,500
222,783,371	14,481,859	9,360,222	(4,323,851)	223,581,157			222,783,371
28,947,750	3,923,323	2,115,149	(2,013,479)	28,742,445			28,947,750
22,458,778	3,730,650	2,147,697	(803, 161)	23,238,570			22,458,778
4,505,292,064	1,618,245,846	1,538,256,684	(8,450,956)	4,576,830,270			4,505,292,064
13,457,319	1,294,967			14,752,286			13,457,319
6,091,213	220,265		536,108	6,847,586			6,091,213
6,834,006	454,984		(536, 108)	6,752,882			6,834,006
2,498,079	35,802	454,984	11,241	2,090,138			2,498,079
189,656			1,022	190,678			189,656
		25,970	25,970				
	2,006,018	480,954	38,233	30,633,570			29,070,273
		,					4,534,362,337
	Carrying Value Beginning of Current Quarter  2,134,344,078  1,892,500,588  204,257,500  222,783,371  28,947,750  22,458,778  4,505,292,064  13,457,319  6,091,213  6,834,006  2,498,079  189,656	Book/Adjusted Carrying Value Beginning of Current Quarter  2,134,344,078	Book/Adjusted Carrying Value Beginning of Current Quarter         Acquisitions During Current Quarter         Dispositions During Current Quarter           2,134,344,078         106,929,531         48,619,042           1,892,500,588         1,477,223,020         1,465,856,212           204,257,500         11,957,463         10,158,362           222,783,371         14,481,859         9,360,222           28,947,750         3,923,323         2,115,149           22,458,778         3,730,650         2,147,697           4,505,292,064         1,618,245,846         1,538,256,684           1,538,256,684         1,538,256,684           2,498,079         35,802         454,984           189,656         25,970           29,070,273         2,006,018         480,954	Book/Adjusted Carrying Value Beginning of Current Quarter         Acquisitions During Current Quarter         Dispositions During Current Quarter         Non-Trading Activity During Current Quarter           2, 134, 344, 078         106, 929, 531         48,619,042         5,906, 352           1,892,500,588         1,477,223,020         1,465,856,212         (17,030,579)           204,257,500         11,957,463         10,158,362         9,813,762           222,783,371         14,481,859         9,360,222         (4,323,851)           28,947,750         3,923,323         2,115,149         (2,013,479)           22,458,778         3,730,650         2,147,697         (803,161)           4,505,292,064         1,618,245,846         1,538,256,684         (8,450,956)           3,457,319         1,294,967         536,108           6,091,213         220,265         536,108           6,834,006         454,984         (536,108)           2,498,079         35,802         454,984         11,241           189,656         25,970         25,970           29,070,273         2,006,018         480,954         38,233	Book/Adjusted Carrying Value Beginning of Current Quarter         Acquisitions During Current Quarter         Dispositions During Current Quarter         Non-Trading Activity During Current Quarter         Book/Adjusted Carrying Value End of First Quarter           2,134,344,078         106,929,531         .48,619,042         .5,906,352         2,198,560,919           1,892,500,588         1,477,223,020         .1,465,856,212         .(17,030,579)         .1,886,836,817           204,257,500         .11,957,463         .10,158,362         .9,813,762         .215,870,363           222,783,371         .14,481,859         .9,360,222         .(4,323,851)         .223,581,157           28,947,750         .3,923,323         .2,115,149         .(2,013,479)         .28,742,445           22,458,778         3,730,650         .2,147,697         .(803,161)         .23,238,570           4,505,292,064         .1,618,245,846         .1,538,256,684         .(8,450,956)         .4,576,830,270           .13,457,319         .1,294,967           .536,108         .6,847,586           .6,091,213         .220,265          .536,108         .6,847,586           .6,634,006          .454,984 </td <td>  Book/Adjusted Carrying Value Beginning of Current Quarter</td> <td>  Book/Adjusted Carrying Value Beginning of Current Quarter</td>	Book/Adjusted Carrying Value Beginning of Current Quarter	Book/Adjusted Carrying Value Beginning of Current Quarter

NAIC 4 \$ .....; NAIC 5 \$.....; NAIC 6 \$.....

## **SCHEDULE DA - PART 1**

Short-Term Investments

	1	2	3	4	5 Paid for
	Book/Adjusted Carrying Value	Par Value	Actual Cost	Interest Collected Year-to-Date	Accrued Interest Year-to-Date
9199999 Totals	25,995,191	XXX	25,924,424		

# **SCHEDULE DA - VERIFICATION**

Short-Term Investments

		1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	26,472,927	80,957,223
2.	Cost of short-term investments acquired	15,979,271	88,866,175
3.	Accrual of discount	42,436	146 , 171
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	(75)	793
6.	Deduct consideration received on disposals	16,499,368	143,497,435
7.	Deduct amortization of premium		
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized		
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	25,995,191	26,472,927
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	25,995,191	26,472,927

## **SCHEDULE DB - PART A - VERIFICATION**

Options, Caps, Floors, Collars, Swaps and Forwards

1.	Book/Adjusted Carrying Value, December 31, prior year (Line 9, prior year)	56,169,109
2.	Cost Paid/(Consideration Received) on additions	13,255
3.	Unrealized Valuation increase/(decrease)	55,364,584
4.	Total gain (loss) on termination recognized	7,900,850
5.	Considerations received/(paid) on terminations	9,251,930
6.	Amortization	1,744
7.	Adjustment to the Book/Adjusted Carrying Value of hedged item	
8.	Total foreign exchange change in Book/Adjusted Carrying Value	
9.	Book/Adjusted Carrying Value at End of Current Period (Lines 1+2+3+4-5+6+7+8)	110,197,612
10.	Deduct nonadmitted assets	
11.	Statement value at end of current period (Line 9 minus Line 10)	110,197,612

	SCHEDULE DB - PART Futures Cor		RIFICATION	
1.	Book/Adjusted carrying value, December 31 of prior year (Line 6, prior year)			
2.	Cumulative cash change (Section 1, Broker Name/Net Cash Deposits Footnote - Cu	mulative Cash Cha	ange column)	
3.1	Add:			
	Change in variation margin on open contracts - Highly Effective Hedges			
	3.11 Section 1, Column 15, current year to date minus			
	3.12 Section 1, Column 15, prior year			
	Change in variation margin on open contracts - All Other			
	3.13 Section 1, Column 18, current year to date minus	11,978,838		
	3.14 Section 1, Column 18, prior year	23,692,351	(11,713,514)(11,713,514)	
3.2	Add:			
	Change in adjustment to basis of hedged item			
	3.21 Section 1, Column 17, current year to date minus			
	3.22 Section 1, Column 17, prior year			
	Change in amount recognized			
	3.23 Section 1, Column 19, current year to date minus	11,978,838		
	3.24 Section 1, Column 19, prior year	23,692,351	(11,713,514)(11,713,514)	
3.3	Subtotal (Line 3.1 minus Line 3.2)			
4.1	Cumulative variation margin on terminated contracts during the year		30,276,317	
4.2	Less:			
	4.21 Amount used to adjust basis of hedged item			
	4.22 Amount recognized	6,583,966	6,583,966	
4.3	Subtotal (Line 4.1 minus Line 4.2)			23,692,351
5.	Dispositions gains (losses) on contracts terminated in prior year:			
	5.1 Total gain (loss) recognized for terminations in prior year			
	5.2 Total gain (loss) adjusted into the hedged item(s) for terminations in prior year			(23,692,351)
6.	Book/Adjusted carrying value at end of current period (Lines 1+2+3.3-4.3-5.1-5.2)			
7.	Deduct total nonadmitted amounts			
8.	Statement value at end of current period (Line 6 minus Line 7)			

# **SCHEDULE DB - PART C - SECTION 1**

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

г					Replication	on (Syntheti	c Asset) Tra	Insactions Open as of (	Surrent Statemen							
Replication (Synthetic Asset) Transactions								Components of the Replication (Synthetic Asset) Transactions								
1	2	3	4	5	6	7	8		Instrument(s) Open				nstrument(s) Held	1		
Number	Description	NAIC Designation or Other Description	Notional Amount	Book/Adjusted Carrying Value	Fair Value	Effective Date	Maturity Date	9 Description	10  Book/Adjusted Carrying Value	11 Fair Value	12 CUSIP	13  Description	14 NAIC Designation or Other Description	15 Book/Adjusted Carrying Value	16 Fair Value	
Number	Description	Description	Amount	value	raii value	Date	Date	Description	value	Fair Value	CUSIP	ML-CFC Commercial Mortgage	Description	value	Fair value	
361448A@2	GATX Financial	2	1,650,000	252,079		03/22/2010	06/20/2015	Swap/CDS Long	3,283	3,283	55312V-AD-0	Trust/Series 2006-4 Class A3 REID . Wachovia Bank Commercial Mortgage Trust/Series 2007-C33 Class A4 REID	1	248,796	262,72	
361448A@2	GATX Financial	2		1,742,927	1,866,580	03/22/2010	06/20/2015	Swap/CDS Long			92978N-AE-4	GE Capital Commercial	1	1,742,927	1,866,58	
755111D*9	Raytheon Co.	1	1,650,000	203,350	203,862	03/22/2010	06/20/2015	Swap/CDS Long	3,606	3,606	36828Q-PW-0	Mortgage/Series 2005-C3 Class A7A REID	1	199,744	200,250	
755111D*9	Raytheon Co.	1		1,696,984	1,783,815	03/22/2010	06/20/2015	Swap/CDS Long			46630E-AC-4	Sec/Series 2006-CB17 Class A4 REID	1	1,696,984	1,783,81	
361448A#0	GATX Financial	2	1,650,000	285,835		03/22/2010	06/20/2015	Swap/CDS Long	3,283	3,283	79549A-GG-8	Salomon Brothers Mortgage Securities VII Inc./Series 2001-MM Class E8 REID Commercial Mtg Pass Thru	1	282,552	327 , 26	
361448A#0	GATX Financial	2		1,545,755	1,684,464	03/22/2010	06/20/2015	Swap/CDS Long			20047R-AE-3	Certs/Series 2007-C9 Class A4 REID	1	1,545,755	1,684,46	
755111D07	Raytheon Co.	. 1	1,650,000	253,672	265,214	03/22/2010	06/20/2015	Swap/CDS Long	3,672	3,672	942749-A#-9	Inc./Senior Note	2	250,000	261,54	
755111D07	Raytheon Co.	1		1,526,188	1,597,028	03/22/2010	06/20/2015	Swap/CDS Long			07388V-AE-8	Sec/Series 2007-T26 Class A4 REID Bear Stearns Coml Mortgage	1	1,526,188	1,597,02	
755111D07	Raytheon Co.	. 1		297,216	324,715	03/22/2010	06/20/2015	Swap/CDS Long			07401D-BC-4	Sec/Series 2007-PW18 Class A4 REID Merrill Lynch Mortgage Trust/Series	1	297,216	324,71	
666807C*1	Northrop Grumman	2	1,650,000	352,763	359,247	03/22/2010	06/20/2015	Swap/CDS Long	3,641	3,641	59022H-NC-2	2005-LC1 Class A4 REID Bear Stearns Coml Mortgage	1		355,600	
666807C*1	Northrop Grumman	2		1,551,132	1,675,119	03/22/2010	06/20/2015	Swap/CDS Long			07388Q-AE-9	Sec/Series 2007-PW17 Class A4 REID	1	1,551,132	1,675,11	
6668070@9	Northrop Grumman	2	1,500,000	1,302,740	1,309,472	03/22/2010	06/20/2015	Swap/CDS Long	3,310	3,310	52108M-AF-0	LB-UBS Commercial Mortgage Trust/Series 2005-C7 Class A4 REID	1	1,299,430	1,306,16	
666807009	Northrop Grumman	2		349, 122	355,606	03/22/2010	06/20/2015	Swap/CDS Long			59022H-NC-2	Merrill Lynch Mortgage Trust/Series 2005-LC1 Class A4 REID Watts Water Technologies	1		355,600	
666807009	Northrop Grumman	2		250,000	261,542	03/22/2010	06/20/2015	Swap/CDS Long			942749-A#-9	Inc./Senior Note	)	250,000	261,54	
755111D#5	Raytheon Co.	. 1	1,500,000	452,092	455 , 488	03/22/2010	06/20/2015	Swap/CDS Long	3,338	3,338	07387B-AH-6	Sec/Series 2005-PWR9 CI A4A REID ML-CFC Commercial Mortgage Trust 2007-7/Series 2007-7 Class A4 REID	1	448,754	452, 15	
755111D#5	Raytheon Co.	. 1	4 500	1,300,977		03/22/2010	06/20/2015	Swap/CDS Long			55313K-AE-1	TIAA Seasoned Commercial Mortgage Trust 2007-C4/Series 2007-C4 Class		1,300,977	1,401,87	
009158F#8	Air Products		1,500,000			03/22/2010	06/20/2015	Swap/CDS Long	3,242		87246A-AE-8	AJ REID		796,883	809,970	
009158F#8	Air Products	2	700.000	966,859 902,811	1,060,139	03/22/2010	06/20/2015	Swap/CDS Long	1,464	1.464	07388P-AG-6 05952A-AE-4	Banc of America Commercial Mortgage	1	966,859	1,060,13	
9999999 - To				16.032.627	17.005.620		XXX	XXX	28.839	28.839		XXX	XXX	16.003.788	16.976.78	

# **SCHEDULE DB - PART C - SECTION 2**

Replication (Synthetic Asset) Transactions Open

				oj						
	First Quarter		Second Quarter		Third Quarter		Fourth Quarter		Year To Date	
,	1	2	3	4	5	6	7	8	9	10
	Number of Positions	Total Replication (Synthetic Asset) Transactions Statement Value	Number of Positions	Total Replication (Synthetic Asset) Transactions Statement Value	Number of Positions	Total Replication (Synthetic Asset) Transactions Statement Value	Number of Positions	Total Replication (Synthetic Asset) Transactions Statement Value	Number of Positions	Total Replication (Synthetic Asset) Transactions Statement Value
Beginning Inventory	9	13,450,000							9	13,450,000
Add: Opened or Acquired Transactions										
Add: Increases in Replication (Synthetic Asset)     Transactions Statement Value	xxx		xxx		xxx		xxx		xxx	
Less: Closed or Disposed of Transactions										
Less: Positions Disposed of for Failing Effectiveness     Criteria										
Less: Decreases in Replication (Synthetic Asset)     Transactions Statement Value	XXX		XXX		XXX		XXX		XXX	
7. Ending Inventory	9	13,450,000							9	13,450,000

## **SCHEDULE DB - VERIFICATION**

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

		Book/Adjusted Carryin	ng Value Check
1.	Part A, Section 1, Column 14.	110,197,612	
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance		
3.	Total (Line 1 plus Line 2)		110, 197,612
4.	Part D, Section 1, Column 5	688,405,851	
5.	Part D, Section 1, Column 6	(578,208,239)	
6.	Total (Line 3 minus Line 4 minus Line 5)		
		Fair Value (	Check
7.	Part A, Section 1, Column 16	110, 197,612	
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)		110, 197,612
10.	Part D, Section 1, Column 8	688,405,851	
11.	Part D, Section 1, Column 9	(578,208,239)	
12	Total (Line 9 minus Line 10 minus Line 11)	<u></u>	
		Potential Expos	ure Check
13.	Part A, Section 1, Column 21	197,553,685	
14.	Part B, Section 1, Column 20	9,483,800	
15.	Part D, Section 1, Column 11	207,037,485	
16.	Total (Line 13 plus Line 14 minus Line 15)		

## **SCHEDULE E - VERIFICATION**

(Cash Equivalents)

		1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	173,465,084	165,417,592
2.	Cost of cash equivalents acquired	1,402,909,973	4,475,687,263
3.	Accrual of discount	251,867	599,235
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	163	(3,566)
6.	Deduct consideration received on disposals	1,398,795,134	4,468,235,440
7.	Deduct amortization of premium		
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized		
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	177,831,953	173,465,084
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	177,831,953	173,465,084