

Subscribed and sworn to before me this day of

ANNUAL STATEMENT

FOR THE YEAR ENDED DECEMBER 31, 2016

OF THE CONDITION AND AFFAIRS OF THE SEPARATE ACCOUNTS OF THE

	Massachuse	etts Mutua	I Life Insuranc	e Company
	Group Code 0435	0435 NAIC Compa (Prior)	ny Code <u>65935</u> Employer's	ID Number 04-1590850
Organized under the Laws of	Massao	chusetts	, State of Domicile or Port of E	intry MA
Country of Domicile		United S	States of America	
Type of Separate Accounts	Insulated [X] Non-	nsulated []		
Incorporated/Organized	05/15/1851		Commenced Business	08/01/1851
Statutory Home Office	1295 State \$	Street		Springfield , MA, US 01111
	(Street and N		,(City of	pr Town, State, Country and Zip Code)
Main Administrative Office			5 State Street	
	Springfield , MA, US 01111	· · ·	et and Number)	413-788-8411
(City or	Town, State, Country and Zip (Area Code) (Telephone Number)
Mail Address	1295 State Stree	t		Springfield , MA, US 01111
	(Street and Number or P		,(City c	or Town, State, Country and Zip Code)
Primary Location of Books and	d Records	129	95 State Street	
			et and Number)	
(City or	Springfield , MA, US 01111 Town, State, Country and Zip (Codo)	,(413-788-8411 Area Code) (Telephone Number)
	Town, State, Country and Zip (500e)	(,	Area Code) (Telephone Number)
Internet Website Address		WWW.	massmutual.com	
Statutory Statement Contact	Tammy	/ A. Peatman	,,	413-744-6327
	tpeatman@massmutual.com	(Name)		(Area Code) (Telephone Number) 413-226-4086
	(E-mail Address)		,	(FAX Number)
		<i>.</i>	OFFICERS	
President and Chief		, i i i i i i i i i i i i i i i i i i i		
Executive Officer				Todd Garett Picken
Secretary	Pia Denise I	Flanagan	Appointed Actuary	Douglas Wright Taylor
Chief Financial Offic Robert Joseph Casale, Ex Chief Inform Adnan Omar Ahmed, Execu	#, Executive Vice President, cer and Chief Actuary xecutive Vice President and nation Officer tive Vice President and Chief	Mark Douglas Roell	OTHER nning, Executive Vice President ig, Executive Vice President and eneral Counsel	Melvin Timothy Corbett, Executive Vice President and Chief Investment Officer Elaine Anne Sarsynski, Executive Vice President
Human Res	ources Officer	DIRECTO	RS OR TRUSTEES	
<u>ĕ</u>	randall - Chairman rbet - Lead Director		en Hall Bechtel # enry DeGraffenreidt, Jr.	Mark Thomas Bertolini Patricia Diaz Dennis
	lan Essner		lla Davidov Goren	Raymond Walter LeBoeuf
	larc Leiden		Elizabeth Minehan	Marc Francis Racicot
Laura Je	Massachusetts		iam Taylor Spitz	Howard Todd Stitzer
County of	Hampden	SS:		
all of the herein described as statement, together with relate condition and affairs of the sa in accordance with the NAIC rules or regulations require respectively. Furthermore, th	sets were the absolute propert ed exhibits, schedules and expli- id reporting entity as of the report Annual Statement Instructions differences in reporting not re e scope of this attestation by the	y of the said reporting anations therein contair orting period stated abo and Accounting Practic elated to accounting p ne described officers al	entity, free and clear from any lien red, annexed or referred to, is a full ve, and of its income and deduction ses and Procedures manual except ractices and procedures, accordin so includes the related correspondi	porting entity, and that on the reporting period stated above is or claims thereon, except as herein stated, and that this and true statement of all the assets and liabilities and of the s therefrom for the period ended, and have been completed to the extent that: (1) state law may differ; or, (2) that state g to the best of their information, knowledge and belief ng electronic filing with the NAIC, when required, that is any y be requested by various regulators in lieu of or in addition
Roger William C President and Chief Ex		Pia D	enise Flanagan Secretary	Todd Garett Picken Treasurer
Subscribed and sworn to befo	re me this		a. Is this an original filirb. If no,	ng?Yes [X] No []

1. State the amendment number.....

3. Number of pages attached......

2. Date filed

		55L15			
			Current Year	_	Prior Year
		1 General Account Basis	2 Fair Value Basis	3 Total (Cols. 1 + 2)	4 Total
1.	Bonds (Schedule D)				
2.	Stocks (Schedule D):				
	2.1 Preferred stocks				
	2.2 Common stocks				
3.	Mortgage loans on real estate (Schedule B)		2,414,650	2,414,650	2,815,347
4.	Real estate (Schedule A):				
	4.1 Properties held for the production of income (less				
	\$ encumbrances)				
	4.2 Properties held for sale (less \$				
	encumbrances)				
5.	Contract loans				
6.	Cash (\$12,773,118 Schedule E - Part 1), and cash				
	equivalents (\$1,729,967,219 , Schedule E - Part 2)		1,742,740,337	1,742,740,337	2,013,128,405
7.	Short-term investments (Schedule DA)				
8.	Derivatives (Schedule DB)				
9.	Other invested assets (Schedule BA)				718,944,571
10.	Securities lending reinvested collateral assets (Schedule DL)				
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)		61,764,871,086	61,764,871,086	
13.	Investment income due and accrued			115,801,348	115,769,425
14.	Receivables for securities				
15.	Net adjustment in assets and liabilities due to foreign exchange rates			2,719	(88,879)
16.	Aggregate write-ins for other than invested assets		1,009	1,009	1,041
17.	Total (Lines 12 to 16)		62,203,947,440	62,203,947,440	60,385,557,896
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 thru 1103 plus 1198)(Line 11 above)				
1601.	Foreign income tax recoverable				1,041
1602.					
1603.					
1698.	Summary of remaining write-ins for Line 16 from overflow page				
1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)		1,009	1,009	1,041

LIABILITIES AND SURPLUS

Image: Appropriate reserve for He, annuly and accodent and health contracts Image: Contracts			Current Year		Prior Year
(Exhibit 2, Like Segees, Col. 2) 58, 214, 268, 315 59, 214, 268, 315 59, 214, 268, 315 57, 554, 525, 507 2. Liability for deposit-type contracts (Exhibit 4, Line 9, Col. 1) 3, 209, 569, 562 3, 209, 563, 569, 579, 579, 579, 579, 579, 579, 579, 57			 2 Fair Value	Total	4
3. Interest Maintenance Reserve	1.	Aggregate reserve for life, annuity and accident and health contracts (Exhibit 3, Line 9999999, Col. 2)	 		57,554,925,507
4. Charges for investment management, administration and contract 8, 079,214 8, 079,214 39, 524, 764 5. Investment spenses due or accrued (Exhibit 1, Line 24)	2.	Liability for deposit-type contracts (Exhibit 4, Line 9, Col. 1)	 		1,824,261,892
guarances due or accound	3.	Interest Maintenance Reserve	 		
6. Investment taxes, licenses and fees due or accrued, excluding federal income taxes (Exhibit 2, Line 8).	4.	Charges for investment management, administration and contract guarantees due or accrued	 	8,079,214	
income taxes (Exhibit 2, Line 8)	5.	Investment expenses due or accrued (Exhibit 1, Line 24)	 		
taxes)	6.		 		
9. Unearned investment income	7.	5	 		
10. Other transfers to general accound due or accrued (net) (including 176,924,714 accrued expense allowances recognized in reserves). 180,507,791 180,507,791 206,288,736 11. Remitiances and items not allocated 39,088,824 39,088,824 39,088,824 39,088,824 181,155,026 12. Derivatives	8.	Reserve for future federal income taxes	 		
\$	9.	Unearned investment income	 		
reserves) 180.507,791 180.507,791 206.268,756 11. Remittances and items not allocated 39.088,824 39.088,824 181.515.026 12. Derivatives 13,564,303 13,564,303 5,681,571 13. Payable for securities lending 528.954,189 552,966,973 14. Payable for securities lending 485,869 485,869 7,610,592 15. Net adjustment in assets and liabilities due to foreign exchange rates 485,869 485,869 7,610,592 17. Total liabilities (including \$	10.	Other transfers to general account due or accrued (net) (including			
11. Remittances and items not allocated 39.088,824 39.088,824 181,515.026 12. Derivatives 13.564,303 13.564,303 5.681,571 13. Payable for securities lending 528,954,189 558,766,973 14. Payable for securities lending 528,954,189 555,766,973 15. Net adjustment in assets and liabilities due to foreign exchange rates 485,869 485,869 7,610,592 17. Total liabilities (including \$		\$176,924,714 accrued expense allowances recognized in			
12. Derivatives 13,564,303 13,564,303 5,681,571 13. Payable for securities 528,954,189 5528,954,189 555,766,973 14. Payable for securities lending 485,869 485,869 7,610,592 15. Net adjustment in assets and liabilities due to foreign exchange rates 485,869 485,869 7,610,592 17. Total liabilities (including \$ 188,587,005 due or accrued net 62,194,808,047 62,194,808,047 60,376,444,275 18. Contributed surplus (137,379) (137,379) 30,580 19. Aggregate write-ins for special surplus funds 9,276,772 9,276,772 9,083,041 21. Surplus (Lines 18 through 20) 9,139,333 9,139,333 9,113,621 22. Totals 62,203,947,440 62,203,947,440 60,385,557,986 DETAILS OF WRITE-INS 160. Amuitant mortality fluctuation fund 450,988 450,988 392,651 161. Partialt's accrued interest on swaps 128,378 (17,079) 16,620 162. Derivatives accrued interest on swaps 128,378 (17,079) <		reserves)	 		
13. Payable for securities 528,954,189 528,954,189 555,766,973 14. Payable for securities lending 15. Net adjustment in assets and liabilities due to foreign exchange rates 16. 16. Aggregate write-ins for liabilities 485,869 485,869 7,610,592 17. Total liabilities (including \$ 188,587,005 due or accrued net transfers to or (from) the general account) 62,194,808,047 62,194,808,047 60,376,444,275 18. Contributed surplus (137,379) (137,379) 30,580 19. Aggregate write-ins for special surplus funds 9,276,772 9,083,041 20. Unassigned funds 9,276,772 9,083,041 21. Surplus (Lines 18 through 20) 9,139,333 9,113,621 22. Totals 62,203,947,440 60,385,557,896 DETAILS OF WRITE-INS 1601. Annuit ant mortal it y fluctuation fund 4450,988 4450,988 392,051 1602. Derivatives accrued interest on swaps	11.	Remittances and items not allocated	 		
14. Payable for securities lending	12.	Derivatives	 		5,681,571
15. Net adjustment in assets and liabilities due to foreign exchange rates 485,869 485,869 7,610,592 16. Aggregate write-ins for liabilities 485,869 485,869 7,610,592 17. Total liabilities (including \$	13.	Payable for securities	 		
16. Aggregate write-ins for liabilities 485,869 485,869 7,610,592 17. Total liabilities (including \$	14.	Payable for securities lending	 		
17. Total liabilities (including \$	15.	Net adjustment in assets and liabilities due to foreign exchange rates	 		
transfers to or (from) the general account)	16.	Aggregate write-ins for liabilities	485,869	485,869	7,610,592
18. Contributed surplus (137,379) (137,379) 30,580 19. Aggregate write-ins for special surplus funds 9,276,772 9,276,772 9,083,041 20. Unassigned funds 9,139,393 9,139,393 9,139,393 9,139,393 9,139,393 9,139,393 9,131,621 22. Totals 62,203,947,440 62,203,947,440 62,203,947,440 60,385,557,896 DETAILS OF WRITE-INS 1601. Annuitant mortality fluctuation fund 450,988 450,988 392,051 1602. Derivatives accrued interest on swaps 128,378 128,378 (71,079) 1603. Claims in course of settlement (93,497) (93,497) 16,620 1699. Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above) 485,869 485,869 7,610,592 1901. 485,869 485,869 7,610,592 1902. 485,869 485,869 7,610,592 1903. 98 Summary of remaining write-ins for Line 19 from overflow page 485,869 485,869 485,869	17.	Total liabilities (including \$			
19. Aggregate write-ins for special surplus funds		transfers to or (from) the general account)	 		60,376,444,275
20. Unassigned funds 9,276,772 9,276,772 9,083,041 21. Surplus (Lines 18 through 20) 9,139,393 9,139,393 9,113,621 22. Totals 62,203,947,440 60,385,557,896 DETAILS OF WRITE-INS 1601. Annuitant mortality fluctuation fund 450,988 450,988 392,051 1602. Derivatives accrued interest on swaps 128,378 128,378 (71,079) 1603. Claims in course of settlement (93,497) (93,497) 16,620 1698. Summary of remaining write-ins for Line 16 from overflow page 7,273,000 7,273,000 1699. Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above) 485,869 485,869 7,610,592 1901.	18.	Contributed surplus	 (137,379)	(137,379)	
21. Surplus (Lines 18 through 20) 9,139,393 9,139,393 9,113,621 22. Totals 62,203,947,440 62,203,947,440 60,385,557,896 DETAILS OF WRITE-INS 1601. Annuitant mortality fluctuation fund 450,988 450,988	19.	Aggregate write-ins for special surplus funds	 		
22. Totals 62,203,947,440 62,203,947,440 60,385,557,896 DETAILS OF WRITE-INS 1601. Annuitant mortality fluctuation fund 450,988 450,988 392,051 1602. Derivatives accrued interest on swaps 128,378 128,378 (71,079) 1603. Claims in course of settlement	20.	Unassigned funds	 	9,276,772	9,083,041
DETAILS OF WRITE-INS	21.	Surplus (Lines 18 through 20)	9,139,393	9,139,393	9,113,621
1601. Annuitant mortality fluctuation fund	22.	Totals	62,203,947,440	62,203,947,440	60,385,557,896
1602. Der ivatives accrued interest on swaps		DETAILS OF WRITE-INS			
1603. Claims in course of settlement	1601.	Annuitant mortality fluctuation fund	 		
1698. Summary of remaining write-ins for Line 16 from overflow page	1602.	Derivatives accrued interest on swaps	 		(71,079)
1699. Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above) 485,869 485,869 7,610,592 1901.	1603.	Claims in course of settlement	 (93,497)	(93,497)	
1901. 1902. 1903. 1998. Summary of remaining write-ins for Line 19 from overflow page	1698.	Summary of remaining write-ins for Line 16 from overflow page	 		7,273,000
1902.	1699.	Totals (Lines 1601 thru 1603 plus 1698)(Line 16 above)	485,869	485,869	7,610,592
1903.	1901.		 		
1998. Summary of remaining write-ins for Line 19 from overflow page	1902.		 		
	1903.		 		
1999. Totals (Lines 1901 thru 1903 plus 1998)(Line 19 above)	1998.	Summary of remaining write-ins for Line 19 from overflow page	 		
	1999.	Totals (Lines 1901 thru 1903 plus 1998)(Line 19 above)	 		

SUMMARY OF OPERATIONS

r		4	0
		1 Current Year	2 Prior Year
1.	Transfers to Separate Accounts:	Ourient real	Thorreal
	1.1 Net premiums and annuity considerations for life and accident and health contracts	6,182,868,446	
	1.2 Considerations for supplementary contracts with life contingencies		······
	1.3 Aggregate write-ins for other transfers to Separate Accounts		
	1.4 Totals (Lines 1.1 to 1.3)		
2.	Transfers on account of deposit-type contracts (including \$, , ,	, , , ,
	less \$	1,183,032,918	1,359,915,453
3.	Net investment income and capital gains and losses		(77,348,996)
4.	Aggregate write-ins for other income	1,882	277
5.			8,089,428,789
DEDU	CT:		
6.	Transfers from the Separate Account on account of contract benefits:		
	6.1 Death benefits		
	6.2 Matured endowments		
	6.3 Annuity benefits		
	6.4 Payments on supplementary contracts with life contingencies		
	6.5 Accident and health benefits		
	6.6 Surrender benefits and withdrawals for life contracts		7,007,409,189
	6.7 Aggregate write-ins for other transfers from Separate Accounts on account of contract benefits		
7.	Transfers on account of policy loans		
8.	Net transfer of reserves from or (to) Separate Accounts		
9.	Other transfers from the Separate Accounts:		
	9.1 Federal and foreign income taxes incurred		
	9.2 Change in expense allowances recognized in reserves		(28, 177, 859)
	9.3 Aggregate write-ins for other transfers from Separate Accounts		32,995
10.	Subtotals (Lines 6.1 to 9.3)		7,560,341,641
11.	Fees associated with charges for investment management, administration and contract guarantees		
12.	Increase in aggregate reserve for life and accident and health contracts		(1,160,481,388)
13.	Increase in liability for deposit-type contracts		1,327,738,678
14.	Increase in reserve for future federal income taxes		
15.	Aggregate write-ins for reserves and funds	(51,180)	129,635
16.	Totals (Lines 10 to 15)		8,089,441,953
17.	Net gain from operations (including \$		(13,164)
	SURPLUS ACCOUNT		(,
18.	Surplus, December 31, prior year	9,113,621	9,959,803
10.	Net gain from operations (Line 17)		(13, 164)
20.	Surplus contributed or (withdrawn) during year	,	
20.	Change in reserve on account of change in valuation basis, (increase) or decrease		
21.	Transfer from Separate Accounts of the change in expense allowances recognized in Line 21		
23.	Aggregate write-ins for gains and losses in surplus		(863,598)
23.	Surplus, December 31, current year (Page 3, Line 21)	9,139,393	9,113,621
24.	DETAILS OF WRITE-INS	0,100,000	0,110,021
01 301			
	Summary of remaining write-ins for Line 1.3 from overflow page		
	Totals (Lines 01.301 thru 01.303 plus 01.398)(Line 1.3 above)		
	Miscellaneous gain		
	Summary of remaining write-ins for Line 4 from overflow page		
	Totals (Lines 0401 thru 0403 plus 0498)(Line 4 above)	1.882	277
		,	L 11
	Summary of remaining write-ins for Line 6.7 from overflow page		
	Totals (Lines 06.701 thru 06.703 plus 06.798)(Line 6.7 above)		
	Miscellaneous loss		
	Summary of remaining write-ins for Line 9.3 from overflow page		
	Totals (Lines 09.301 thru 09.303 plus 09.398)(Line 9.3 above)	226,327	32,995
-		,	,
	Claims in course of settlement		,
	Change in annuitant mortality fluctuation fund	,	11,837
	Cummun of remaining units ing for Ling 15 from qualified and		
	Summary of remaining write-ins for Line 15 from overflow page		100 005
	Totals (Lines 1501 thru 1503 plus 1598)(Line 15 above)	(51,180)	129,635
	Capital preservation supplemental reserve		(863,598)
	Summary of remaining write-ins for Line 23 from overflow page		(000 500)
2399.	Totals (Lines 2301 thru 2303 plus 2398)(Line 23 above)	160,003	(863,598)

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS

		1		Ordinary		Gro	aun	Acciden	t and Health	9
		'	2	3	4	5	6	7	8	Aggregate of All Other
		Total	Life Insurance		Supplementary Contracts	Life Insurance	Annuities	Group	Other	Lines of Business
1.	Transfers to Separate Accounts:									
	1.1 Net premiums and annuity considerations for life and accident and health contracts	6, 182, 868, 446					5,600,042,414			
	1.2 Considerations for supplementary contracts with life contingencies									
	1.3 Aggregate write-ins for other transfers to Separate Accounts									
	1.4 Totals (Lines 1.1 to 1.3)	6,182,868,446	55,959,855	521,107,389		5,758,788	5,600,042,414			
2.	Transfers on account of deposit-type contracts (including									
	\$	1,183,032,918		(8.716)			1,183,041,634			
3	Net investment income and capital gains and losses						2,571,643,890			
4.		1,882	1,882				, , , , , , , , , , , , , , , , , , ,			
	Totals (Lines 1.4 to 4)	10,808,361,191	111.977.924	1,290,756,275		50,899,054	9,354,727,938			1
DEDUC		10,000,001,191	111,377,324	1,290,730,273		30,033,034	3,004,727,900			
6.	Transfers from the Separate Account on account of contract benefits:	11, 100, 100	4 044 000			0 007 007				
	6.1 Death benefits		4,611,382							
	6.2 Matured endowments									
	6.3 Annuity benefits									
	6.4 Payments on supplementary contracts with life contingencies									
	6.5 Accident and health benefits									
	6.6 Surrender benefits and withdrawals for life contracts	7,719,883,392	41,945,398				6,829,495,987			
1	6.7 Aggregate write-ins for other transfers from Separate Accounts on account of contract									
1	benefits									l
7.	Transfers on account of policy loans									
8.	Net transfer of reserves from or (to) Separate Accounts									
9.	Other transfers from the Separate Accounts:					,	. ,			
	9.1 Federal and foreign income taxes incurred									
	9.2 Change in expense allowances recognized in reserves	(22,968,835)	(652,805)	(22,316,030)						
	9.3 Aggregate write-ins for other transfers from Separate Accounts	226,327		,010,000,341			225.986			
10	Subtotals (Lines 6.1 to 9.3)		61,048,526			.31,274,259	7,359,786,321			
11	Fees associated with charges for investment management, administration and contract									
	quarantees		44,103,650	199.060.988		22,488,623	90, 135, 164			
12.										
	Increase in liability for deposit-type contracts	1,385,307,160	0,935,805	23,203			1,385,283,957			
							1, 300, 203, 957			
	Increase in reserve for future federal income taxes	(51,180)	(110,117)	58.937						
	Aggregate write-ins for reserves and funds					50,000,054				
16.	Totals (Lines 10 to 15)	10,808,358,043	111,977,924	1,290,756,275		50,899,054	9,354,724,790			
17.	Net gain from operations (including \$(3) unrealized capital									
	gains) (Line 5 minus Line 16)	3,148					3,148			
	DETAILS OF WRITE-INS									
	·									
01.303										
	. Summary of remaining write-ins for Line 1.3 from overflow page									
	. Totals (Lines 01.301 thru 01.303 plus 01.398) (Line 1.3 above)									
0401.	Miscellaneous gain	1,882	1,882							
0402.	· · · · · · · · · · · · · · · · · · ·		· [L					
0403.										
	Summary of remaining write-ins for Line 4 from overflow page									
	Totals (Lines 0401 thru 0403 plus 0498) (Line 4 above)	1.882	1.882		[
		.,	.,362							
					††					1
06.702					††					1
	. Summary of remaining write-ins for Line 6.7 from overflow page				1					
	. Totals (Lines 06.701 thru 06.703 plus 06.798) (Line 6.7 above)				<u> </u>					
		000 007		~			005.000			
	. Miscellaneous loss				<u>├</u>					
	·				+					-+
					<u>+</u>					
00 308	. Summary of remaining write-ins for Line 9.3 from overflow page									
05.550	. Totals (Lines 09.301 thru 09.303 plus 09.398) (Line 9.3 above)	226,327		341			225,986			
09.399										
09.399	Claims in course of settlement	(110,117)	(110,117)							
09.399 1501. 1502.	Claims in course of settlement	(110,117) 	(110,117)							
09.399	Claims in course of settlement		(110,117).							
09.399 1501. 1502. 1503. 1598.	Claims in course of settlement									

				Ordinary		Group	
			2	3	4	5	6
		Total	Life Insurance	Individual Annuities	Supplementary Contracts	Life Insurance	Annuities
1.	Reserve Dec. 31 of prior year	57,554,925,507		11,040,840,637		1,668,723,569	43,854,119,497
2.	Tabular net premiums and considerations for annuities and supplementary contracts with life contingencies	6, 182, 868, 446				5,758,788	5,600,042,414
3.	Increase or (decrease) from investment results after provision for federal income taxes	3,240,180,555				45, 140, 266	2,369,398,401
4.	Tabular less actual reserve released						
5.	Increase in reserve on account of change in valuation basis						
6.	Other increases (net)	1,882	1,882				
7.	Totals (Lines 1 to 6)	66,977,976,390	1,103,219,745	12,331,573,710		1,719,622,623	51,823,560,312
8.	Net transfer of reserves from or (to) Separate Accounts			7,521,819			
9.	Tabular cost						
10.	Reserves released by death		4,611,382			6,887,807	
11.	Reserves released by other terminations (net)	7,719,883,392	41,945,398			24,223,924	6,829,495,987
12.	Transfers on account of annuity and supplementary contract payments involving life contingencies	146,515,291		146,504,298			10,993
13.	Charges for investment management, administration and contract guarantees		44,103,650			22,488,623	90 , 135 , 164
14.	Aggregate write-ins for other decreases in reserves	(7,929,163)	14,009,456	(22,321,539)		126,395	256,525
15.	Total deductions (Lines 8 to 14)	8,763,710,075	105,042,059	1,154,983,649		53,762,882	7,449,921,485
16.	Reserve December 31 of current year	58,214,266,315	998,177,686	11,176,590,061		1,665,859,741	44,373,638,827
	DETAILS OF WRITE-INS						
1401.	Change in surrender charge offset	(22,968,835)	(652,805)	(22,316,030)			
1402.	Claims in course of settlement	(110,117)	(110,117)				
1403.	Change in annuitant mortality fluctuation fund						
1498.	Summary of remaining write-ins for Line 14 from overflow page	15,090,852	14,772,378	(64,446)		126,395	
1499.	Totals (Lines 1401 thru 1403 plus 1498) (Line 14 above)	(7,929,163)	14,009,456	(22,321,539)		126,395	256,525

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR

EXHIBIT OF NET INVESTMENT INCOME

12. Investment taxes, licenses and fees, excluding federal income taxes (g)			1	2
1.1 Bonds exempt from U.S. tax				
1.2 Other bonds (unaffiliated) (a) 497,387,261 1.3 Bonds of affiliates (a) 2.1 Preferred stocks (unaffiliated) (b) 2.1 Preferred stocks of affiliates (b) 2.1 Preferred stocks of affiliates (b) 2.2 Common stocks (unaffiliated) 2,242,915,946 2,238,907,848 2.2 Common stocks of affiliates (c) 149,013 146,968 2.2 Common stocks of affiliates (c) 149,013 146,968 3. Mortgage loans (c) 149,013 146,968 4.22 Common stocks of affiliates (c) 149,013 146,968 5. Contract loans (c) 149,013 146,968 6. Cash, cash equivalents and short-term investments (c) 1,226 7. Derivative instruments (f) .(380,084) .(437,934) 8. Other investment income 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,821,731 (g)	1.	U.S. Government bonds		
1.2 Other bonds (unaffiliated) (a) 497,387,261 1.3 Bonds of affiliates (a) 2.1 Preferred stocks (unaffiliated) (b) 2.1 Preferred stocks of affiliates (b) 2.1 Preferred stocks of affiliates (b) 2.2 Common stocks (unaffiliated) 2,242,915,946 2,238,907,848 2.2 Common stocks of affiliates (c) 149,013 146,968 2.2 Common stocks of affiliates (c) 149,013 146,968 3. Mortgage loans (c) 149,013 146,968 4.22 Common stocks of affiliates (c) 149,013 146,968 5. Contract loans (c) 149,013 146,968 6. Cash, cash equivalents and short-term investments (c) 1,226 7. Derivative instruments (f) .(380,084) .(437,934) 8. Other investment income 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,822,364,027 2,821,731 (g)	1.1	Bonds exempt from U.S. tax	(a)	
1.3 Bonds of affiliates (a)	1.2	Other bonds (unaffiliated)	(a)492,207,988	
2.11 Preferred stocks of affiliates (b)	1.3		(a)	
2.2 Common stocks (unaffiliated) 2,242,915,946 2,238,907,848 2.21 Common stocks of affiliates (c) 149,013 146,968 4. Real estate (d) (403,801) 1,226 5 Contract loans (e) 6,625,284 7,215,750 7 Derivative instruments (e) 6,625,284 7,215,750 7 Derivative instruments for investment income (419,476) (419,476) 8. Other invested assets (g) (438,900) 9. Aggregate write-ins for investment income (g) (438,900) 11. Investment taxes, licenses and fees, excluding federal income taxes (g) (438,900) 12. Investment taxes, licenses and fees, excluding federal income (i)	2.1	Preferred stocks (unaffiliated)	(b)	
2.21 Common stocks of affiliates	2.11	Preferred stocks of affiliates		
3. Mortgage loans (c) .149,013 .146,968 4. Real estate (d) .1226 5. Contract loans (d) .1226 6. Cash, cash equivalents and short-term investments (e) .6,625,284 .7,215,750 7. Derivative intruments (f) .380,084	2.2	Common stocks (unaffiliated)		2,238,907,848
4. Real estate (d) (403,801) (226 5 Contract loans (e) (6,25,284) (437,934) 6 Cash, cash equivalents and short-term investments (f) (380,084) (419,476) 7 Derivative instruments (f) (380,084) (419,476) (419,476) 9. Aggregate write-ins for investment income	2.21	Common stocks of affiliates		
5 Contract loans (e) 6, 625, 284 7, 215, 750 7 Derivative instruments (f) (380,084) (437,934) 8. Other invested assets (f) (419,476) (419,476) 9. Aggregate write-ins for investment income (2,822,196,495) (g) 3,260,631 10. Total gross investment income (g) (438,900) (h) (d) 11. Investment expenses (g) (438,900) (h) (d) (d) 12. Investment taxes, licenses and fees, excluding federal income taxes (g) (d)	3.	Mortgage loans		
6 Cash, cash equivalents and short-term investments (e) .6, 625, 284 .7, 715, 750 7 Derivative instruments (f) .(380, 084) .(437, 934) 8. Other invested assets	4.	Real estate	(d)(403,801)1,226
7 Derivative instruments (f)	5	Contract loans		
8. Other invested assets (419,476) (419,476) 9. Aggregate write-ins for investment income (419,476) (419,476) 10. Total gross investment income 2,822,364,027 2,822,196,495 11. Investment expenses (g) .3,260,631 12. Investment taxes, licenses and fees, excluding federal income taxes (g) .438,900 13. Interest expense (h)	6	Cash, cash equivalents and short-term investments	(e)6,625,284	7,215,750
8. Other invested assets	7	Derivative instruments	(f)(380,084)(437,934)
10. Total gross investment income 2,822,364,027 2,822,196,495 11. Investment expenses (g) 3,260,631 12. Investment taxes, licenses and fees, excluding federal income taxes (g) (438,900) 13. Interest expense (h) (h) 14. Depreciation on real estate and other invested assets (h) (h) 15. Aggregate write-ins for deductions from investment income (h) 2,821,731 16. Total deductions (Lines 11 through 15) 2,821,731 2,821,731 17. Net investment income (Line 10 minus Line 16) 2,819,374,764 2,819,374,764 DETAILS OF WRITE-INS	8.			
10. Total gross investment income 2,822,364,027 2,822,196,495 11. Investment expenses (g) 3,260,631 12. Investment taxes, licenses and fees, excluding federal income taxes (g) .408,900) 13. Interest expense (h)	9.	Aggregate write-ins for investment income	(419,476)(419,476)
12. Investment taxes, licenses and fees, excluding federal income taxes (g) (438,900) 13. Interest expense (i)	10.		2,822,364,027	2,822,196,495
12. Investment taxes, licenses and fees, excluding federal income taxes (g) (438,900) 13. Interest expense (i)	11.	Investment expenses		
14. Depreciation on real estate and other invested assets (i) 15. Aggregate write-ins for deductions from investment income (i) 16. Total deductions (Lines 11 through 15) 2,821,731 17. Net investment income (Line 10 minus Line 16) 2,819,374,764 DETAILS OF WRITE-INS 0901. Miscel laneous loss (419,476) 0902. (419,476) (419,476) 0903. (419,476) (419,476) 0904. Summary of remaining write-ins for Line 9 from overflow page (419,476) 1501. (419,476) (419,476) 1502. (419,476) (419,476) 1503.	12.	Investment taxes, licenses and fees, excluding federal income taxes		(g)(438,900)
15. Aggregate write-ins for deductions from investment income 2,821,731 16. Total deductions (Lines 11 through 15) 2,821,731 17. Net investment income (Line 10 minus Line 16) 2,819,374,764 DETAILS OF WRITE-INS 0901. Miscel laneous loss (419,476) 0902.	13.	Interest expense		(h)
16. Total deductions (Lines 11 through 15) 2,821,731 17. Net investment income (Line 10 minus Line 16) 2,819,374,764 DETAILS OF WRITE-INS 0901. Miscel laneous loss (419,476) 0902. (419,476) (419,476) 0903. (419,476) (419,476) 0998. Summary of remaining write-ins for Line 9 from overflow page (419,476) 1501. (419,476) (419,476) 1502.	14.	Depreciation on real estate and other invested assets		(i)
17. Net investment income (Line 10 minus Line 16) 2,819,374,764 DETAILS OF WRITE-INS (419,476) (419,476) 0901. Miscel laneous loss (419,476) (419,476) 0903.	15.	Aggregate write-ins for deductions from investment income		
DETAILS OF WRITE-INS (419,476) 0901. Miscellaneous loss (419,476) 0902. (419,476) (419,476) 0903.	16.	Total deductions (Lines 11 through 15)		
0901. Miscellaneous loss	17.	Net investment income (Line 10 minus Line 16)		2,819,374,764
0902.		DETAILS OF WRITE-INS		
0903.	0901.	Miscellaneous loss	(419,476)(419,476)
0998. Summary of remaining write-ins for Line 9 from overflow page (419,476) 0999. Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above) (419,476) 1501. (419,476) 1502. (19,476) 1503. (19,876) 1598. Summary of remaining write-ins for Line 15 from overflow page	0902.			
0999. Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above) (419,476) (419,476) 1501.	0903.			
0999. Totals (Lines 0901 thru 0903 plus 0998) (Line 9, above) (419,476) (419,476) 1501.	0998.	Summary of remaining write-ins for Line 9 from overflow page		
1502.	0999.			
1502.	1501.			
1598. Summary of remaining write-ins for Line 15 from overflow page	1502.			
1598. Summary of remaining write-ins for Line 15 from overflow page				

(a) Includes \$
(b) Includes \$
(c) Includes \$
(d) Includes \$ for company's occupancy of its own buildings; and excludes \$ interest on encumbrances.
(e) Includes \$
(f) Includes \$
(g) Includes \$ investment expenses and \$ investment taxes, licenses and fees, excluding federal income taxes, attributable to segregated and Separate Accounts.
(h) Includes \$ interest on surplus notes and \$ interest on capital notes.
(i) Includes \$ depreciation on real estate and \$ depreciation on other invested assets.

EXHIBIT OF CAPITAL GAINS (LOSSES)

		1	2	3	4	5
			-	Ŭ	•	Ŭ
				Total Realized Capital	Change in	Change in Unrealized
		Realized Gain (Loss)	Other Realized	Gain (Loss)	Unrealized Capital	Foreign Exchange
		On Sales or Maturity	Adjustments	(Columns 1 + 2)	Gain (Loss)	Capital Gain (Loss)
1.	U.S. Government bonds					
1.1	Bonds exempt from U.S. tax					
1.2	Other bonds (unaffiliated)	(280,391,254)	(99,438)	(280,490,692)		
1.3	Bonds of affiliates					
2.1	Preferred stocks (unaffiliated)					
2.11	Preferred stocks of affiliates					
2.2	Common stocks (unaffiliated)	511,091,981	(124,715)			
2.21	Common stocks of affiliates					
3.	Mortgage loans	(1,031)		(1,031)	(23,842)	
4.	Real estate	102,752		102,752		
5.	Contract loans	, 		, · · · · · · · · · · · · · · · · · · ·		
6.	Cash, cash equivalents and short-term investments	13,944,963	(1.005.620)	12.939.343		1.373.438
7.	Derivative instruments					
8.	Other invested assets					
9.	Aggregate write-ins for capital gains (losses)		(1 273 523)	(1 273 523)		91 600
10.	Total capital gains (losses)	316.930.544	(2,503,296)		307.255.389	
	DETAILS OF WRITE-INS		(_,,	,	,,	.,,
0901.	Capital gain(loss) on foreign currency		(1 273 523)	(1 273 523)		91 600
0902.			(1,210,020)			
0903.						
0903.	Summary of remaining write-ins for Line 9 from					
0990.	overflow page					
0999.	Totals (Lines 0901 thru 0903 plus 0998) (Line 9,					
5555.	above)		(1,273,523)	(1,273,523)		91.600

ANNUAL STATEMENT FOR THE YEAR 2016 OF THE SEPARATE ACCOUNTS OF THE Massachusetts Mutual Life Insurance Company EXHIBIT 1 - INVESTMENT EXPENSES

		1
		Amount
1.	Rent	
2.	Salaries and wages	
3.	Contributions for benefit plans for employees (a)	
4.	Payments to employees under non-funded benefit plans	
5.	Other employee welfare	
6.	Legal fees and expenses	
7.	Fees of public accountants and consulting actuaries	
8.	Traveling expenses	
9.	Postage, express, telegraph and telephone	
10.	Printing and stationery	
11.	Cost or depreciation of furniture and equipment	
12.	Rental of equipment	
13.	Books and periodicals	
14.	Bureau and association fees	
15.	Insurance, except on real estate	
16.	Miscellaneous losses	
17.	Collection and bank service charges	1,888,379
18.	Sundry general expenses	
19.	Real estate expenses	
20.	Investment expenses not included elsewhere	1,324,202
21.	Aggregate write-ins for other investment expenses	
22.	Investment expenses incurred	
Recon	ciliation with Exhibit 5	
23.	Investment expenses unpaid December 31, prior year	
24.	Investment expenses unpaid December 31, current year	292,490
25.	Investment expenses paid during year (Lines 22 + 23 - 24) (to Exhibit 5, Line 12)	3,757,355
	DETAILS OF WRITE-INS	
2101.		
2102.		
2103.		
2198.	Summary of remaining write-ins for Line 21 from overflow page	
2199.	Totals (Lines 2101 thru 2103 plus 2198) (Line 21 above)	
L133.		1]

(a) Includes \$ on account of prior service.

EXHIBIT 2 - INVESTMENT TAXES, LICENSES AND FEES (EXCLUDING FEDERAL INCOME TAXES)

		Amount
1.	Real estate taxes	(438,900)
2.	State insurance department fees	
3.	Other state taxes, including \$ for employee benefits	
4.	U.S. Social Security taxes	
5.	All other taxes	
6.	Taxes, licenses and fees incurred	(438,900)
Recond	siliation with Exhibit 5	
7.	Taxes, licenses and fees unpaid December 31, prior year	
8.	Taxes, licenses and fees unpaid December 31, current year	
9.	Taxes, licenses and fees paid during year (Lines 6 + 7 - 8) (to Exhibit 5, Line 13)	(438,900)

EXHIBIT 3 - AGGREGATE RESERVE FOR LIFE, ANNUITY AND ACCIDENT AND HEALTH CONTRACTS

1	2	3	4
Description of Valuation Basis	Total	Ordinary	Group
0100001. 58 CSO 4.00% Mod CRVM	2, 148, 198	2, 148, 198	
0100002. 80 CSO 5.50% CRVM			
0100003. 80 CSO 5.00% CRVM			
0100004. 80 CSO 4.50% CRVM			
0100005. 80 CSO 4.00% CRVM			
0100006. 2001 CS0 4.00% CRVM			
0100007. 2001 CSO 3,50% CRVM	5,218,472	5,218,472	
0100008.80 CSO Account Value			1,658,003,222
0100009. 2001 CSO Account Value			7,856,519
0199999. Life Insurance: Totals	2,664,037,427	998,177,686	1,665,859,741
0200001. Deferred Annuity 4.75% to 10.00% CARVM			
0200002. Annuity Reserve	42,568,978,775		42,496,717,202
0200003. Annuity Reserve 1951 to 1970 5.50% GA MBI			
0200004. Group Home Office and Field Plans	1,876,893,245		1,876,893,245
0299999. Annuities: Totals	55,550,228,888	11,176,590,061	44,373,638,827
9999999. Totals (to Page 3, Line 1)	58,214,266,315	12,174,767,747	46,039,498,568

EXHIBIT 3 - INTERROGATORIES

1.1	Has the reporting entity ever issued both participating and non-participating variable life insurance contracts?	Yes [X] No []
2.1	Does the reporting entity at present issue both participating and non-participating variable life insurance contracts?	Yes [X] No []
2.2	If not, state which kind is issued	
3.1	Is any surrender value promised in excess of the reserve as legally computed?	Yes [] No [X] N/A []
3.2	If so, the amount of such excess must be included in surrender values in excess of reserves otherwise required and carried in this schedule. Has this been done? Attach a statement of methods employed in the valuation of variable life insurance contracts issued at, or subsequently subject to, an extra premium or in the valuation of contracts otherwise issued on lives classified as substandard for the plan of contract issued or on	Yes [] No [] N/A [X]

special class lives (including paid-up variable life insurance).

EXHIBIT 3A - CHANGES IN BASIS OF VALUATION DURING THE YEAR

(Including supplementary contracts set up on a basis other than that used to determine benefits)



EXHIBIT 4 - DEPOSIT TYPE CONTRACTS

	1	2 Guaranteed	3	4 Supplemental	5 Dividend Accumulations or	6 Premium and Other
	Total	Interest Contracts	Annuities Certain	Contracts	Refunds	Deposit Funds
1. Balance at the beginning of the year	1,824,261,892	250, 107, 861				1,574,154,031
2. Deposits received during the year	2,146,704,503					2,146,704,503
3. Investment earnings credited to account		2, 107, 139				
4. Other net change in reserves						
5. Fees and other charges assessed						
6. Surrender charges						
7. Net surrender or withdrawal payments		252,215,000				711,456,585
8. Other net transfer to or (from) general account						
9. Balance at the end of current year (Lines 1+2+3+4-5-6-7-8)	3,209,569,052					3,209,569,052

10

EXHIBIT 5 - RECONCILIATION OF CASH AND INVESTED ASSETS

	DEVELOPMENT OF INCREASE IN CASH	1 Amount
1.	Transfers to Separate Accounts on account of:	
	1.1 Net premiums and considerations for annuities and supplementary contracts with life contingencies	
0	1.2 Aggregate write-ins for other transfers to Separate Accounts	
2. 3.	Deposits on deposit-type contract funds and other liabilities without life or disability contingencies	
4.	Consideration on disposal of short-term bonds net of purchases	
5.	Consideration on disposal of investments (excluding short-term bonds)	
6.	Aggregate write-ins for other increases in funds from operations	
7.	Total (Lines 1 to 6)	
8. 9.	Cost of investments acquired (excluding short-term bonds) Transfers from Separate Accounts on account of contract benefits:	
5.	9.1 Death benefits	13,045,943
	9.2 Matured endowments	
	9.3 Annuity benefits	
	9.4 Supplementary contract benefits with life contingencies	
	9.5 Accident and health benefits	
	9.6 Surrender benefits and withdrawals for life contracts	
	9.7 Policy loans (net)	
	9.9 Aggregate write-ins for other transfers from Separate Accounts on account of contract benefits	
10.	Other transfers from Separate Accounts:	
	10.1 Federal income taxes	
	10.2 Aggregate write-ins for other transfers from Separate Accounts	
11.	Withdrawals on deposit-type contract funds and other liabilities without life or disability contingencies	
12.	Investment expenses (Exhibit 1, Line 25)	
12.1 13.	Fees associated with investment management, administration and contract guarantees Investment taxes, licenses and fees, excluding federal income taxes (Exhibit 2, Line 9)	
13.	Total (Lines 8 to 13)	
15.	Funds from operations (Line 7 minus Line 14)	
16.	Surplus contributed or (withdrawn) during year	(137,379)
17.	Aggregate write-ins for other changes in funds	
18.	Total funds (includes \$	
19.	Increase in payable for investments acquired, net of receivable for investments sold	
20. 21.	Decrease in policy loans	
21.	Increase in cash (Line 18 to 21)	
	RECONCILIATION BETWEEN YEARS	
23.	Cash and invested assets, December 31st of prior year	
24.	Increase in cash (Line 22)	
25.	Cost of invested assets acquired	
26.	Adjusted cost of assets disposed of	
27.	Increase in policy loans Accrual of discount less amortization of premium	
28.	Accrual of discount less amonization of premium	
29		
29. 30.	Depreciation on real estate and other invested assets	
30.	Depreciation on real estate and other invested assets	
30. 31. 32.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.299.	Depreciation on real estate and other invested assets	61,764,871,086
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.299. 0601.	Depreciation on real estate and other invested assets	61,764,871,086
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.299. 0601. 0602. 0603.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.299. 0601. 0602. 0603. 0698.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 0601. 0602. 0603. 0698. 0699.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 0699. 09.901.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0603. 0603. 0698. 0699. 09.901. 09.902.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.208. 01.299. 0601. 0602. 0603. 0699. 0699. 09.902. 09.903.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.998. 09.999.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.902. 09.903. 09.998. 09.999. 10.201.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.298. 0601. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.993. 10.201. 10.202.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.298. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 10.201. 10.202. 10.202.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 0601. 0602. 0603. 0699. 09.901. 09.901. 09.902. 09.903. 09.998. 09.998. 10.201. 10.202. 10.203. 10.298.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.203. 10.298. 10.299.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.203. 10.203. 10.209. 1701.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.203. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.203. 10.299. 1701. 1702.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.208. 10.298. 1701. 1702. 1703.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.909. 10.201. 10.202. 10.203. 10.203. 10.203. 10.299. 1701. 1703. 1798. 1799.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.903. 09.903. 10.201. 10.202. 10.203. 10.203. 10.208. 10.299. 1701. 1702. 1703. 1798. 1799. 2101.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.298. 0601. 0602. 0603. 0698. 0699. 09.901. 09.903. 09.903. 09.909. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703. 1798. 1799. 2101. 2102.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.298. 01.298. 0601. 0602. 0603. 0699. 09.901. 09.903. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.298. 10.299. 1701. 1702. 1703. 1799. 2101. 2102. 2103.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.208. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.299. 10.201. 10.203. 10.299. 1701. 1702. 1703. 1798. 1799. 2101. 2103. 2198.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.203. 01.203. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.902. 09.903. 09.998. 09.999. 10.201. 10.202. 10.203. 10.203. 10.299. 1701. 1702. 1703. 1798. 1799. 2101. 2103. 2198. 2199.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0699. 09.901. 09.903. 09.993. 09.993. 09.993. 10.201. 10.202. 10.203. 10.298. 10.298. 1701. 1702. 1703. 1798. 1799. 2101. 2102. 2103. 3101.	Depreciation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 09.901. 09.902. 09.902. 09.909. 10.201. 10.202. 10.203. 10.298. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.203. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.299. 10.201. 10.202. 10.203. 10.299. 10.201. 10.299. 10.201. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 2101. 2103. 2199. 3101. 3102. 3103. 3102. 3103. 3103. 3103. 3105. 310	Depretation on real estate and other invested assets	
30. 31. 32. 01.201. 01.202. 01.203. 01.299. 0601. 0602. 0603. 0698. 0699. 09.901. 09.902. 09.903. 09.903. 09.904. 10.202. 10.203. 10.203. 10.208. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.203. 10.299. 10.201. 10.203. 10.203. 10.299. 10.201. 10.203. 10.299. 10.201. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 10.203. 10.299. 2101. 2103. 2199. 3101. 3102. 3103. 3198.	Depretation on real estate and other invested assets	

EXHIBIT 6 - GUARANTEED INSURANCE AND ANNUITY PRODUCTS

		1	2
		Amount	Percent of Total
1.	Aggregate reserve for life, annuity and accident and health contracts (Included in Exhibit 3):		
	1.1 Life insurance		
	1.2 Annuities		
	1.3 Supplementary contracts with life contingencies		
	1.4 Accident and health		
	1.5 Miscellaneous reserves		
	1.6 Total		
2.	Liability for deposit-type contracts (included in Exhibit 4):		
	2.1 Guaranteed interest contracts		
	2.2 Annuities certain		
	2.3 Supplemental contracts		
	2.4 Dividend accumulations or refunds		
	2.5 Premium and other deposit funds		
	2.6 Total		
3.	Other liabilities (included in Page 3, Lines 4, 10, 13 & 14)		
4.	Total liabilities associated with guarantees (Lines 1.6 + 2.6 + 3)		
5.	Total liabilities not associated with guarantees		
6.	Total Separate Accounts liabilities (Lines 4 + 5 = Page 3, Line 17)	62,194,808,047	100.0%

Insurance Company

GENERAL INTERROGATORIES

Product Mix

1.01 Identify the product types in the separate account, quantify the assets associated with those products, indicate if there are any guarantees associated with those products, quantify seed money and quantify other fees and expenses due to the general account:

Note: A distinct product identifier shall be used for each product and shall be used consistently throughout the interrogatory.

1	2	3	4	5	6
		Guarantees			
		Associated with		Fees and Expenses	
	Separate Account	the Product		Due to the	Additional Required
Product Identifier	Assets	Yes/No	Seed Money	General Account	Surplus Amounts
Non-guaranteed Retirement Services SIAs					
Separate Account Guaranteed Interest Contract		YES			
Individual Variable Annuity		YES			
Stable Value Bank-owned Life Insurance	1,534,148,039	YES			
Individual Variable Universal Life	1,003,308,805	YES			
Capital Preservation	610,241,344	YES			
Corporate-owned Life Insurance		YES			
Group Variable Universal Life		YES.			
Individual Immediate Variable Annuity		YES.			
Supplemental Account	4,417,551	NO			4,417,551
Cornerstone Hotel Income Equity Fund		NO			
Included in the Separate Account Assets total are					
17 contracts totaling \$210,807,325 that are non-					
insulated, exclusive of seed money and unsettled					
fees and expenses. Total MassMutual separate					
account assets are \$62,203,947,440 at 12/31/16.					
These 17 non-insulated contracts represent 0.34%					
of MassMutuals separate account balance at					
12/31/16. Given the immateriality of the					
balances, we are disclosing the existence of these					
17 non-insulated contracts, but are not preparing					
a separate green book blank.					
Totals	62,203,947,440	XXX	5,817		4,417,551
i otais	32,230,047,440	////	0,011		4,411,00

Note: Additional Required Surplus Amounts is defined as additional or permanent surplus that is required to be retained in the separate account in accordance with state law or regulation. These amounts should not include reinvested separate account investment proceeds that have not been allocated to separate account contract holders.

1.02 Did the reporting entity remit seed money, other fees and expenses or additional required surplus amounts to the general account during the Yes [X] No [] 1.03137,679 1.031 Seed Money.... \$ 1.032 Other Fees and Expenses..... \$.. 1.033 Additional Required Surplus Amounts ...\$ Did the reporting entity receive seed money from the general account in the current year? Yes [X] No [] 1.04 If yes, provide information on the total gross amount of seed money received in the current year: (If amounts were both received and 1.05 remitted in the current year, include the gross amounts in both 1.031 and 1.051.) 300 1.051 Seed Money Received\$ 1.06 Does the reporting entity consider any of the seed money reflected in separate accounts to be insulated from the general account?...... Yes [] No [X] N/A []

1.07 If yes, provide information on the amount of seed money the reporting entity considers insulated from the general account:

1.071 Insulated Seed Money

1.08 Does the reporting entity have a policy for repatriating seed money or remitting fees and expenses due and additional required surplus amounts to the general account:

1.081 Seed Money	Yes [X] No []
1.082 Other Fees and Expenses	Yes [X] No []
1.083 Additional Required Surplus Amounts	Yes [X] No []

...\$

1.09 Provide detail on the time duration for which seed money, other fees and expenses due to the general account and additional required surplus amounts have been held in the separate account:

	·	1	2	3
			Fees and Expenses	
			Due to the	Additional Required Surplus Amounts
		Seed Money	General Account	Surplus Amounts
1.091	Under 1 Year			
1.092	1 Year - 3 Years			
1.093	Over 3 Years - 5 Years	658		
1.094	Over 5 Years			4,417,551
1.095	Total	5,817		4,417,551

1.10 For seed money, other fees and expenses, and additional required surplus amounts held in the separate account, does the reporting entity invest these funds in accordance with investment directives of the general account:

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

GENERAL INTERROGATORIES

If no, does the reporting entity have stated policy and procedure for the investment of seed money, other fees and expenses, and additional required surplus amounts that are retained with the separate account? 1.11

			1.111 Seed Money 1.112 Other Fees and Expenses 1.113 Additional Required Surplus Ar	Yes [X] No [] N/A []
Separa 2.1	te Account Products with Gene Does the reporting entity have p		neral account?	Yes [X] No []
2.2	If yes, what is the current total r	naximum guarantee the general account wo	uld provide to the separate account?	
2.3	Has the separate account colle	cted amounts from the general account with	in the past five years related to separate account	guarantees? Yes [X] No []
2.4	If yes, provide detail on these g	uarantees paid by the general account:		
		1	2	
		Year	Amount	
	2.401	As of December 31, 2016		
	2.402	As of December 31, 2015	\$	
	2.403	As of December 31, 2014	\$	
	2.404	As of December 31, 2013	\$	
	2.405	As of December 31, 2012	\$,202,041	

To compensate the general account for the risk taken, for any separate account products with general account guarantees, does the separate 2.5 Yes [X] No [] account remit risk charges to the general account related to separate account guarantees?

2.6 If yes, identify the separate account products with risk charges that are remitted to the general account and whether the risk charge for that product is reviewed and opined upon:

1	2	3
Product Identifier with Diels Charges	Diel: Charge Deviewed and Onigod Lines	Name and Title of Individual who Provided
Product Identifier with Risk Charges	Risk Charge Reviewed and Opined Upon	Opinion on Risk Charges
		Douglas W Taylor, FSA, MAAA, Vice President and
Capital Preservation	Yes	Appointed Actuary
		Douglas W Taylor, FSA, MAAA, Vice President and
Separate Account Guaranteed Interest Contract	Yes	Appointed Actuary
	No; the risk charges associated with this product are reviewed for reasonableness and accuracy by the appropriate actuary, but no formal opinion on these product risk charges is required by the NAIC.	
	No; the risk charges associated with this product are reviewed for reasonableness and accuracy by the appropriate actuary, but no formal opinion on these product risk charges is required by the NAIC.	
Individual Variable Annuity		

2.7 Provide detail on the risk charges paid to the general account related to separate account guarantees for the past five years:

	1		2
	Year		Amount
2.701	As of December 31, 2016	\$.	
2.702	As of December 31, 2015	\$.	
2.703	As of December 31, 2014	\$.	
2.704	As of December 31, 2013	\$.	
2.705	As of December 31, 2012	\$.	

Investment Directive of Separate Account Activity 3.1 Does the reporting entity have products classified within the separate account for which the investment directive is not determined by the contract holder? (Situations in which the investments directive mirrors the general account would not be considered determined by the contract holder; however, having the contract holder select an investment direction from multiple options would meet this criteria.)Yes [X] No []

3.2	If ves, if these investments would have been included in the	general account, would the reporting entity have exceeded the investment					
	limitations imposed on the general account?		Yes [] [No [X]	N/A []

3.3 Provide detail on the separate account investment portfolio and state investment limitations. (This includes the combined separate account and general investments, excluding separate account assets with investment direction determined by the contract holder):

1	2	3
		Combined
	State Investment	Investment (Separate
Investment Type	Limitation	and General Account)

Allocation of Investment Proceeds of Separate Account Activity

4.1

Does the reporting entity have separate account assets in which less than 100% of investment proceeds (net of contract fees and assessments) are attributed to a contract holder? (This should identify any situations where there is a ceiling on investment performance results.)

Yes [X] No []

GENERAL INTERROGATORIES

4.2 If yes, provide detail on the net investment proceeds that were attributed to the contract holder, transferred to the general account and reinvested within the separate account:

	1	2	3	4	5	
					Reinvested	
			A	Transferred to	Within the	
	Product Identifier	Net Investment Proceeds	Attributed to Contract Holder	General Account	Separate Account	
	Non-guaranteed Retirement Services SIAs			40,879	(37,854)	
	Separate Account Guaranteed Interest Contract					
					61	
	Capital Preservation Supplemental Account					
.3	For items reinvested within the Separate Account, does the report directives of the general account?				Yes [[] No [X] N/A []
.3 .4 .5		for the reinvestmer	nt of investment pro	oceeds within the s	eparate Yes [Yes]	[X] No [] N/A []
.4	directives of the general account? If no, does the reporting entity have a stated policy and procedure account? Did the reinvestment of investment proceeds within the separate a portfolio that exceeded the state investment limitations imposed of ement of Separate Account Assets	for the reinvestmer	nt of investment pro	pceeds within the s	eparate Yes [Yes [stment Yes [[X] No [] N/A []
.4	directives of the general account?	for the reinvestmer	nt of investment pro	pceeds within the s	eparate Yes [Yes [stment Yes [[X] No [] N/A []
.4 .5 sure	directives of the general account? If no, does the reporting entity have a stated policy and procedure account? Did the reinvestment of investment proceeds within the separate a portfolio that exceeded the state investment limitations imposed of ement of Separate Account Assets Does the reporting entity report all separate account assets at fair For items not reported at fair value, does the reporting entity repor	for the reinvestmer account result with t on the general acco value?	nt of investment pro	pceeds within the s	eparate Yes [[X] No [] N/A []
.4 .5 sure .1	directives of the general account? If no, does the reporting entity have a stated policy and procedure account? Did the reinvestment of investment proceeds within the separate a portfolio that exceeded the state investment limitations imposed of ement of Separate Account Assets Does the reporting entity report all separate account assets at fair	for the reinvestmer account result with t on the general acco value?	t of investment pro	g a combined investing a combined investing a combined investing a combined investing a cost, and/or under the cost, and the cost	eparate Yes [[X] No [] N/A [] [] No [X] N/A [] Yes [X] No []

5.3 If other measurement methods are used, provide explanation on these measurement methods.

Меа

5.4 Identify the assets measured at fair value, amortized cost or another measurement method and the percentage of separate account assets measured under each measurement method:

	1	2	
Description	Amount	Percentage	
5.41 Fair Value\$			%
5.42 Amortized Cost\$			%
5 43 Other Measurement Methods \$			%

5.5 For the assets not measured at fair value, provide a comparison of the reported value to current fair value and identify the unrealized gain or loss that would have been recorded if the assets had been reported at fair value:

1	2	3
Assets Held at		Unrecorded Unrealized
Amortized Cost	Fair Value	Gain/Loss
5.51 \$	\$	\$
1	2	3
Assets Held at		
Assets Held at Other Measurement		Unrecorded Unrealized
	Fair Value	Unrecorded Unrealized Gain/Loss

Securit 6.1	ies Lending Transactions Within Separate Accounts Does the reporting entity engage in securities lending transactions with separate account assets?		Ye	s []	No [X]
6.2	If yes, does the reporting entity have written policies and procedures for such transactions?	Yes []	No []	N/A	[X]
6.3	Does the reporting entity obtain approval, or otherwise provide notification to contract holders, regarding securities lending transactions that occur with separate account assets?	Yes []	No []	N/A	[X]
6.4	Are all securities lending transactions reported on balance sheet?	Yes []	No []	N/A	[X]
6.5	Provide a description of the reporting entity's securities lending transaction program, specifically identifying any variations from the secu lending transaction program administered by the general account.	rities					

6.62 Identify whether securities lent are reported at book value or market value

6.612 Percentage.....

%

Insurance Company

GENERAL INTERROGATORIES

6.63 Detail on collateral received:

6.631 Aggregate Amount Collateral Received

						311 Open				
					6.6	312 30 Days or Less	\$			
						313 31 to 60 Days				
					6.6	314 61 to 90 Days	\$			
					6.6	315 Greater than 90 Days	\$			
					6.6	316 Total Collateral Receive	:d\$			
	6.63	32 The aggregate fair valu	e of all securities acquired	from the sale, trade or us	e of the accepted collate	ral (reinvested collateral)	\$			
	6.63		out sources and uses of co							
	6.63									
6.7	For the r	eporting entity's security le	ending program state the a	mount of the following as	December 31 of the curr	ent year:				
						Im of Schedule DL, Parts 1	\$			
		6.72 Total book ad	djusted/carrying value of re	invested collateral assets	reported on Schedule D					
		6.73 Total payable	e for securities lending repo	orted on the liability page	(Page 3, Line 14, Columi	າ 3)	\$.			
		greements					,	/ T	1 N. F.Y	,
7.1						unt?	ĭ	es [JNO[X	1
7.2			support the classification	00		ccount				
7.3	Provide	detail regarding the FHLB	funding agreements classi	fied within the separate a	ccount:					
		1	2	3	4					
		Amount of FHLB Stock Purchased or	Amount of Collateral Pledged to the	Total Borrowing or Funding Capacity	Total Reserves Related	ł				
		Owned	FHLB	Currently Available	Agreements					
		\$	\$	\$	\$					
7.4	credit, t	porrowed money, etc) and	intended use of funding.			ent, type of funding (lines of				
	AAP finand	cial statements)				g entities regardless if the		/00 [1 No [X	1
8.2			parate account reporting re				1	65 [JNULX	1
0.2	the repo	orting entity have products ents had been completed.	that are classified within the required to be reported within the required to be reported within the repor	he separate account that hin the general account u	were, or would have beer nder GAAP financials? P	n if GAAP financial	[X]	No [] N/A []
			rate account is legally reco tate insurance laws, federa			d, approved, and regulated				
	of t		ate account assets support hat is, the contract holder i			the general account liabilitie the assets held in the	S			
	fun		•			vest the contract holder's or in accordance with specifi	ic			
	or i be	regulatory requirements be		lividual contract holder. C	ontracts may specify con	sult of contractual, statutory, ditions under which there ma ing passed through to the				

GENERAL INTERROGATORIES

8.3 Identify all separate account products and identify whether each product was classified within a separate account for GAAP reporting purposes. (For non-GAAP filers, this disclosure should reflect whether the GAAP classification would have been the same if GAAP financials had been completed.) For products that were (or would have been) reported differently, identify which SOP 03-1 condition prevented separate account GAAP classification for that particular product.

1	2
	Same as GAAP / Condition that Requires GAAP General
Product Identifier	Account Reporting
Capital Preservation	GAAP GIA classification due to investment performance
Separate Account Guaranteed Interest Contract	GAAP GIA classification due to investment performance
Stable Value Bank-owned Life Insurance	GAAP GIA classification due to investment performance
Supplemental Account	GAAP GIA classification due to investment performance
Cornerstone Hotel Income Equity Fund	Same as GAAP
Corporate-owned Life Insurance	Same as GAAP
Group Variable Universal Life	Same as GAAP
Individual Immediate Variable Annuity	Same as GAAP
Individual Variable Annuity	Same as GAAP
Individual Variable Universal Life	
Non-guaranteed Retirement Services SIAs	Same as GAAP

Interest Maintenance Reserve

ΝΟΝΕ

Interest Maintenance Reserve - Amortization

Asset Valuation Reserve - Default Component **NONE**

Asset Valuation Reserve - Equity Component **NONE**

Asset Valuation Reserve Replications (Synthetic) Assets **NONE**

OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Liabilities Line 16				
		Current Year		Prior Year
	1	2	3	4
	General Account	Fair Value	Total	
	Basis	Basis	(Cols. 1 + 2)	Total
1604. Repurchase agreements				
1697. Summary of remaining write-ins for Line 16 from overflow page				7,273,000

Additional Write-ins for Analysis of Increase in Reserves Line 14

		1		Ordinary			oup
			2	3	4	5	6
				Individual	Supplementary		
		Total	Life Insurance	Annuities	Contracts	Life Insurance	Annuities
1404.	Miscellaneous loss						
1405.	Change in policy loans	14,864,525	14,772,378	(64,787)			
1497.	Summary of remaining write-ins for Line 14 from						
	overflow page	15,090,852	14,772,378	(64,446)		126,395	256,525

Additional Write-ins for Exhibit 5 Line 10.2

	1
	Amount
10.204. Miscellaneous income / loss	
10.205. Change in derivative premium	(3,495,721)
10.206. Foreign income tax recoverable	(32)
10.297. Summary of remaining write-ins for Line 10.2 from overflow page	(3,271,313)

SCHEDULE A - VERIFICATION BETWEEN YEARS

Real Estate

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

SCHEDULE B - VERIFICATION BETWEEN YEARS Mortgage Loans

1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	2 815 347
2.	Cost of acquired:	
<u> </u>	2.1 Actual cost at time of acquisition (Part 2, Column 7)	
	2.2 Additional investment made after acquisition (Part 2, Column 8)	
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 12	
	3.2 Totals, Part 3, Column 11	
4.	Accrual of discount	
5.	Unrealized valuation increase (decrease):	
	5.1 Totals, Part 1, Column 9	2)
	5.2 Totals, Part 3, Column 8	
6.	Total gain (loss) on disposals, Part 3, Column 18	(1,031)
7.	Deduct amounts received on disposals, Part 3, Column 15	
8.	Deduct amortization of premium and mortgage interest points and commitment fees	
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest:	
	9.1 Totals, Part 1, Column 13	
	9.2 Totals, Part 3, Column 13	
10.	Deduct current year's other than temporary impairment recognized:	
	10.1 Totals, Part 1, Column 11	
	10.2 Totals, Part 3, Column 10	
11.	Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	2,414,650
12.	Total valuation allowance	
13.	Subtotal (Line 11 plus 12)	2,414,650
14.	Deduct total nonadmitted amounts	
15.	Statement value of mortgages owned at end of current period (Line 13 minus Line 14)	2,414,650

SCHEDULE BA - VERIFICATION BETWEEN YEARS

Other Long-Term Invested Assets

1.	Book/adjusted carrying value, December 31 of prior year	718,944,571
2.	Cost of acquired:	
	2.1 Actual cost at time of acquisition (Part 2, Column 8)	
	2.2 Additional investment made after acquisition (Part 2, Column 9)	
3.	Capitalized deferred interest and other:	
	3.1 Totals, Part 1, Column 16	
	3.2 Totals, Part 3, Column 12	
4.	Accrual of discount	
5.	Unrealized valuation increase (decrease):	
	5.1 Totals, Part 1, Column 13	
	5.2 Totals, Part 3, Column 9	4,997,672
6.	Total gain (loss) on disposals, Part 3, Column 19	
7.	Deduct amounts received on disposals, Part 3, Column 16	177,810,894
8.	Deduct amortization of premium and depreciation	
9.	Total foreign exchange change in book/adjusted carrying value:	
	9.1 Totals, Part 1, Column 17	
	9.2 Totals, Part 3, Column 14	
10.	Deduct current year's other than temporary impairment recognized:	
	10.1 Totals, Part 1, Column 15	
	10.2 Totals, Part 3, Column 11	
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	
12.	Deduct total nonadmitted amounts	
13.	Statement value at end of current period (Line 11 minus Line 12)	

SCHEDULE D - VERIFICATION BETWEEN YEARS

Bonds and Stocks

1.	Book/adjusted carrying value, December 31 of prior year	
2.	Cost of bonds and stocks acquired, Part 3, Column 7	
3.	Accrual of discount	
4.	Unrealized valuation increase (decrease):	
	4.1. Part 1, Column 12	
	4.2. Part 2, Section 1, Column 15	
	4.3. Part 2, Section 2, Column 13	
	4.4. Part 4, Column 11	
5.	Total gain (loss) on disposals, Part 4, Column 19	
6.	Deduction consideration for bonds and stocks disposed of, Part 4, Column 7	
7.	Deduct amortization of premium	
8.	Total foreign exchange change in book/adjusted carrying value:	
	8.1. Part 1, Column 15	
	8.2. Part 2, Section 1, Column 19	
	8.3. Part 2, Section 2, Column 16	
	8.4. Part 4, Column 15	
9.	Deduct current year's other than temporary impairment recognized:	
	9.1. Part 1, Column 14	
	9.2. Part 2, Section 1, Column 17	
	9.3. Part 2, Section 2, Column 14	
	9.4. Part 4, Column 13	
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)	

SCHEDULE D - SUMMARY BY COUNTRY

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

		Long-Term Bonds and Stocks		2	3	4
			Book/Adjusted	_	-	7
D	escriptio	วท	Carrying Value	Fair Value	Actual Cost	Par Value of Bonds
BONDS	1.	United States	4,023,699,210	4,023,699,210	4,100,302,716	4,057,268,772
Governments	2.	Canada			2,950,836	2,395,000
(Including all obligations guaranteed	3.	Other Countries	102,322,155	102,322,155	106,465,732	100,075,000
by governments)	4.	Totals	4,129,028,353	4,129,028,353	4,209,719,284	4,159,738,772
U.S. States, Territories and Possessions						
(Direct and guaranteed)	5.	Totals	54,515,688	54,515,688	52,458,652	44,060,000
U.S. Political Subdivisions of States, Territories and Possessions (Direct and guaranteed)	6.	Totals	12,835,344	12,835,344	12,079,574	11,280,000
U.S. Special Revenue and Special Assessment Obligations and all Non- Guaranteed Obligations of Agencies and Authorities of Governments and						
their Political Subdivisions	7.	Totals	2,694,344,261	2,694,344,261	2,723,781,352	2,595,809,500
	8.	United States	10, 157, 819, 596	10, 157, 819, 596		10,000,278,864
Industrial and Miscellaneous, SVO Identified Funds and Hybrid	9.	Canada			101,753,541	103, 153,000
Securities (unaffiliated)	10.	Other Countries	1,493,798,740	1,493,798,740	1,505,518,436	1,477,508,155
	11.	Totals	11,754,244,641	11,754,244,641	11,821,250,081	11,580,940,019
Parent, Subsidiaries and Affiliates	12.	Totals				
	13.	Total Bonds	18,644,968,287	18,644,968,287	18,819,288,943	18,391,828,291
PREFERRED STOCKS	14.	United States				
Industrial and Miscellaneous	15.	Canada				
(unaffiliated)	16.	Other Countries				
	17.	Totals				
Parent, Subsidiaries and Affiliates	18.	Totals				
	19.	Total Preferred Stocks				
COMMON STOCKS	20.	United States				
Industrial and Miscellaneous	21.	Canada			5,047,419	
(unaffiliated)	22.	Other Countries	8,754,748	8,754,748	8,187,401	
	23.	Totals	39,951,372,362	39,951,372,362	39,784,621,634	
Parent, Subsidiaries and Affiliates	24.	Totals				
	25.	Total Common Stocks	39,951,372,362	39,951,372,362	39,784,621,634	
	26.	Total Stocks	39,951,372,362	39,951,372,362	39,784,621,634	
	27.	Total Bonds and Stocks	58,596,340,649	58,596,340,649	58,603,910,577	

SCHEDULE DA - VERIFICATION BETWEEN YEARS

Short-Term Investments

	1	2	3	4 Other Short-term	5 Investments in Parent.
	Total	Bonds	Mortgage Loans	Investment Assets (a)	Subsidiaries and Affiliates
1. Book/adjusted carrying value, December 31 of prior year					
2. Cost of short-term investments acquired		3, 156, 834, 307			
3. Accrual of discount					
4. Unrealized valuation increase (decrease)					
5. Total gain (loss) on disposals		3,640,307			
6. Deduct consideration received on disposals	2,891,973,574	2,891,973,574			
7. Deduct amortization of premium					
8. Total foreign exchange change in book/adjusted carrying value		1,373,438			
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)	659,253,531	659,253,531			

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

SCHEDULE DB - PART A - VERIFICATION BETWEEN YEARS

Options, Caps, Floors, Collars, Swaps and Forwards

1.	Book/adjusted carrying value, December 31, prior year (Line 9, prior year)		
2.	Cost paid/(consideration received) on additions:		
	2.1 Current year paid/(consideration received) at time of acquisition, still open, Section 1, Column 12	(3,702,042)	
	2.2 Current year paid/(consideration received) at time of acquisition, terminated, Section 2, Column 14		(1,033,592)
3.	Unrealized valuation increase/(decrease):		
	3.1 Section 1, Column 17		
	3.2 Section 2, Column 19		3,831,567
4.	Total gain (loss) on termination recognized, Section 2, Column 22		
5.	Considerations received/(paid) on terminations, Section 2, Column 15		
6.	Amortization:		
	6.1 Section 1, Column 19		
	6.2 Section 2, Column 21		
7.	Adjustment to the book/adjusted carrying value of hedged item:		
	7.1 Section 1, Column 20		
	7.2 Section 2, Column 23		
8.	Total foreign exchange change in book/adjusted carrying value:		
	8.1 Section 1, Column 18		
	8.2 Section 2, Column 20		(891,066)
9.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4-5+6+7+8)		
10.	Deduct nonadmitted assets		
11.	Statement value at end of current period (Line 9 minus Line 10)		

SCHEDULE DB - PART B - VERIFICATION

Futures Contracts

1.	Book/Adjusted carrying value, December 31 of prior year (Line 6, prior year)			
2.	Cumulative cash change (Section 1, Broker Name/Net Cash Deposits Footnote - Cu	mulative Cash Chang	ge Column)	
3.1	Add:			
	Change in variation margin on open contracts - Highly effective hedges			
	3.11 Section 1, Column 15, current year 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 minus	(4,600,331)		
	3.14 Section 1, Column 18, prior year	(2,682,236)		(1,918,095)
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	(4,600,331)		
	3.24 Section 1, Column 19, prior year	(2,682,236)	(1,918,095)	(1,918,095)
3.3	Subtotal (Line 3.1 minus Line 3.2)			
4.1	Cumulative variation margin on terminated contracts during the year (Section 2, Colu	umn 15)	(26,784,414)	
4.2	Less:			
	4.21 Amount used to adjust basis of hedged item (Section 2, Column 17)			
	4.22 Amount recognized (Section 2, Column 16)	(26,784,414)	(26,784,414)	
4.3	Subtotal (Line 4.1 minus Line 4.2)			
5.	Dispositions gains (losses) on contracts terminated in prior year:			
	5.1 Total gain (loss) recognized for terminations in prior year			
	5.2 Total gain (loss) adjusted into the hedged item(s) for terminations in prior year \ldots			
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 (RSATs) Open **NONE**

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

Insurance Company

SCHEDULE DB - VERIFICATION

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

		Book/Adjusted Carrying Value C	heck
1.	Part A, Section 1, Column 14		
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance		
3.	Total (Line 1 plus Line 2)	20	,746,717
4.	Part D, Section 1, Column 5		
5.	Part D, Section 1, Column 6	(13,564,303)	
6.	Total (Line 3 minus Line 4 minus Line 5)		
		Fair Value Check	
7.	Part A, Section 1, Column 16		
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)	20	,746,717
10.	Part D, Section 1, Column 8		
11.	Part D, Section 1, Column 9	(13,564,303)	
12	Total (Line 9 minus Line 10 minus Line 11)		
		Potential Exposure Check	
13.	Part A, Section 1, Column 21	101,712,581	
14.	Part B, Section 1, Column 20		
15.	Part D, Section 1, Column 11		
16.	Total (Line 13 plus Line 14 minus Line 15)		

SCHEDULE E - VERIFICATION BETWEEN YEARS

(Cash Equivalents)					
		1	2	3	
		Total	Bonds	Other (a)	
1.	Book/adjusted carrying value, December 31 of prior year	2,001,105,284	2,001,105,284		
2.	Cost of cash equivalents acquired				
3.	Accrual of discount				
4.	Unrealized valuation increase (decrease)				
5.	Total gain (loss) on disposals	9,299,036			
6.	Deduct consideration received on disposals				
7.	Deduct amortization of premium				
8.	Total foreign exchange change in book/adjusted carrying value				
9.	Deduct current year's other than temporary impairment recognized				
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	1,729,967,219	1,729,967,219		
11.	Deduct total nonadmitted amounts				
12.	Statement value at end of current period (Line 10 minus Line 11)	1,729,967,219	1,729,967,219		

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