

LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES - ASSOCIATION EDITION

## **QUARTERLY STATEMENT**

AS OF MARCH 31, 2023 OF THE CONDITION AND AFFAIRS OF THE

MML Bay State Life Insurance Company

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

Organized under the Laws of	(Current) (Prior) Connecticut	, Sta	te of Domicile or Port of E	intryCT
Country of Domicile		United States of Am		
Licensed as business type:	Life, Accident and	d Health [X] Frater	nal Benefit Societies [ ]	
Incorporated/Organized	04/01/1935	(	Commenced Business	07/01/1894
Statutory Home Office	100 Bright Meadow Boulevard	,		Enfield, CT, US 06082
	(Street and Number)		(City or	Town, State, Country and Zip Code)
Main Administrative Office		1295 State Stre (Street and Num		
	oringfield, MA, US 01111	, oneer and runn		413-788-8411
(City or To	wn, State, Country and Zip Code)		(Ar	ea Code) (Telephone Number)
Mail Address	1295 State Street (Street and Number or P.O. Box)		(City or	Springfield, MA, US 01111 Town, State, Country and Zip Code)
Driver of Dealer and De	,	4005 04-4- 04-		rown, state, soundly and zip sous/
Primary Location of Books and Re	ecords	1295 State Stre (Street and Num		
	oringfield, MA, US 01111 wn, State, Country and Zip Code)	,	(Δι	413-788-8411 rea Code) (Telephone Number)
, ,	wii, otate, odunity and zip odde)		•	ed Gode) (Telephone Number)
Internet Website Address		www.massmutual	.com	
Statutory Statement Contact	Trevor Wade Gordon (Name)		· *	617-695-4321 (Area Code) (Telephone Number)
tgo	ordon@MassMutual.com	,		413-226-4086
	(E-mail Address)			(FAX Number)
		OFFICERS		
President and Chief Executive Officer	Roger William Crandall		Treasurer	Julieta Giselle Sinisgalli
Secretary	******		Appointed Actuary	
		OTHER		
Elizabeth Ward Chicares, Exec Chief Financia		obert Fanning, Execu	itive Vice President	Eric William Partlan #, Executive Vice President
				·
Roger William Crand	dall - Chairman	RECTORS OR TR Michael Robert Fa		Elizabeth Ward Chicares
Michael James	O'Connor			
State of	Massachusetts			
County of	Hampden SS:			
				orting entity, and that on the reporting period stated above or claims thereon, except as herein stated, and that the
statement, together with related e	xhibits, schedules and explanations thereir	n contained, annexe	d or referred to, is a full ar	nd true statement of all the assets and liabilities and of the
				therefrom for the period ended, and have been complete the extent that: (1) state law may differ; or, (2) that sta
				to the best of their information, knowledge and believe the pelectronic filing with the NAIC, when required, that is a
exact copy (except for formatting				be requested by various regulators in lieu of or in addition
to the enclosed statement.				
D Mülli O	1.0	Alterial also Alter	E . * .	L Partie O' alle O'alle Hi
Roger William Cran President and Chief Execu		Akintokunbo Akin Secretary	bajo	Julieta Giselle Sinisgalli Treasurer
		•	a. Is this an original filing	?Yes[X]No[]
Subscribed and sworn to before m	ne this		b. If no,	
day of			State the amendme     Date filed	
			Number of pages at	

# **ASSETS**

			Current Statement Date		4
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	December 31 Prior Year Net Admitted Assets
1.	Bonds		İ	211,791,093	212,912,558
	Stocks:				
	2.1 Preferred stocks				
	2.2 Common stocks	21,795		21,795	22,653
3.	Mortgage loans on real estate:	,		,	,
	3.1 First liens	1,516,191		1,516,191	1,657,058
	3.2 Other than first liens				
4.	Real estate:				
	4.1 Properties occupied by the company (less \$				
	encumbrances)				
	4.2 Properties held for the production of income (less				
	\$ encumbrances)				
	4.3 Properties held for sale (less \$				
	encumbrances)				
5.	Cash (\$2,578,803 ), cash equivalents				
	(\$108,213,671 ) and short-term				
	investments (\$	110 792 474		110 792 474	111 900 743
6.	Contract loans (including \$ premium notes)				
7.	Derivatives				
8.	Other invested assets			191,076	
9.	Receivables for securities			6.160.055	
10.	Securities lending reinvested collateral assets			, , , , , ,	
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)				
13.	Title plants less \$ charged off (for Title insurers	, ·,		,,	
	only)				
14.	Investment income due and accrued			4,079,018	
15.	Premiums and considerations:	, -,		, -,	.,,.
	15.1 Uncollected premiums and agents' balances in the course of collection				
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	(4,128,559)		(4,128,559)	(3,059,424)
	15.3 Accrued retrospective premiums (\$	, , , ,		, , , ,	, , , ,
	contracts subject to redetermination (\$				
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers	11,454,427	77,618	11,376,809	7,748,657
	16.2 Funds held by or deposited with reinsured companies				
	16.3 Other amounts receivable under reinsurance contracts			19,493,135	18,836,219
17.	Amounts receivable relating to uninsured plans				
	Current federal and foreign income tax recoverable and interest thereon				
	Net deferred tax asset			1,767,700	1,715,240
19.	Guaranty funds receivable or on deposit			7,421	109,722
20.	Electronic data processing equipment and software				
21.	Furniture and equipment, including health care delivery assets				
	(\$)				
22.	Net adjustment in assets and liabilities due to foreign exchange rates				
23.	Receivables from parent, subsidiaries and affiliates	134,434		134,434	2,992,034
24.	Health care (\$ ) and other amounts receivable				
25.	Aggregate write-ins for other than invested assets				
26.	Total assets excluding Separate Accounts, Segregated Accounts and	450 400 0:3	200 0==	450 400 440	450 000 707
	Protected Cell Accounts (Lines 12 to 25)	459, 180, 218	990,075	458, 190, 143	452,983,795
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts	4.600.489.299		4,600,489,299	4.569.883.813
28.	Total (Lines 26 and 27)	5,059,669,517		5,058,679,442	5,022,867,608
	DETAILS OF WRITE-INS	,,,	,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,
1101.					
1102.					
1102.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1190.	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)				
2501.	Totals (Lines 1101 tillough 1103 plus 1130)(Line 11 above)				
2502.					
2503.	Summary of remaining write ine for Line 25 from evertless page				
2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page				
∠399.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)		1		

# **LIABILITIES, SURPLUS AND OTHER FUNDS**

Aggregate reserve for life contracts \$ 137, MS .FTB less \$ included in Line 6.3   197, MB .FTB less \$ included in Line 6.3   197, MB .FTB less \$		•	1	2
1. A regregate reserve for the contracts \$ 177.09.078 less \$ restouded in Line 6.3 (17.20, 17.00 ft) 197.77.01   2. Lichtefor the expect value of the contract			Current Statement Date	December 31
(mixiding \$ 123,31,073 Matter Reserve)	1.	Aggregate reserve for life contracts \$	Statement Date	THOI Teal
1. Content of unitary for depretant spectrating \$ Avador Petervery			137,269,678	137,777,901
4. Contract claims 4. Live. 4. Contract claims 5. Preliphositions of decorproductions to manners 8 and coupons 8 as on unique. 5. Previous or profess of decorproductions to manners 8 and coupons 9 and current 6. Previous or profess of decorproductions of manners and coupons payelle in biforeling salested in year - estimated 6. Previous and decorproductions of the decorproductions 9 and current 6. Previous and decorproductions 9 and current 6. Previous and decorproductions 9 and current 8. Account operations of the decorproductions 9 and current 8. Common and and c				
4 - Life			12,439,169	12,617,802
4 Accident and health 6 Pelipholosis dividends dividends in members and outpons 3 due 6 Pelipholosis dividends dividends in members and outpons psycholic intitionary california production of pelipholosis dividends and refunds to members appointed to the peripholosis of the peripholosis dividends and refunds to members and outpons psycholic intitionary and peripholosis dividends and refunds to members and outpons psycholic intitionary and peripholosis dividends and refunds to members and peripholosis dividends and refunds a	4.		4 600 144	14 334 995
5. Polisynated dividendantals to members 3 and coupons 5 due and rapped and product of dividenda and related to members and coupons pupplies in following calcinater year - estimated and carbodists in control of the c				
and singuist  1. Policy/indexed devictants, refunds to members apportioned for polyment producing §  2. Policy/indexed devictants and refunds to remembers apportioned for polyment producing §  3. Discloyoblater devictants and refunds to remembers apportioned for polyment producing §  3. Discloyoblater devictants and refunds to remembers apportioned for polyment (refunding §  3. Policy/indexed devictants and refunds to remembers and yet apportioned freedings §  4. Amount provided while yet or considered devicting price to reclased in Line 6  5. Previours and annuty consideration for tills and accordant and health previous and annuty consideration for tills and accordant and health previous and annuty consideration for tills and accordant and health experience single public of which is a for redical base accordant and health experience single public of which is a for redical base accordant and health experience single public of visitorians.  2. Provision for experience remining refunds, reducing the liability of \$  2. So Deter annual speakful or remains, including \$  3. So Deter annual speakful or remains, including \$  3. So Deter annual speakful or remains, including \$  4. So Deter annual speakful or remains, including \$  5. So Provision and speakful or remains, including \$  6. So Jet annual speakful or remains, including \$  6. So Jet annual speakful or remains public or relination asserted.  5. So Jet annual speakful or remains public or relination asserted and speakful public publi	5.			
annotation of the process of the pro				
8. Policy/solders dividends and referrable to remembers apportment (including \$	6.			
Models)  A Descriptory and mather brondle including \$ Models)  A Descriptory and mather brondle including \$ Models)  A Descriptory and mather brondle including \$ Models  B General Manual Programment of the and accident and health controllars serviced in advance less \$ 1 models and programment of the and accident and health controllars serviced in advance less \$ 1 models and programment of the and accident and health controllars serviced in advance less \$ 1 models and programment of the and accident and health promisms  Sometics Act				
8.2 Proteyhoder's dividende and refunds to members not yet apportuned (including \$ 1.0 courses and analyse benefits (including \$ 1.0 courses on a simulate benefits (including \$ 1.0 courses on the course of the courses of the course				
7. Amount provisionally hold for deferred dividend policies not included in Line 6. Premiums and analyst considerations for lies all accolors and health contracts seewine in advance less successful and analyst considerations for lies all accolors and health promiums.  9. Comment liabilities not including in Enablity of 8. Successful and a society of the contracts and the seeming of the contracts.  9. Provisions for experiment ending refunds, including the fability of 8. Successful and the seeming of the contracts.  9. Provisions for experiment ending refunds in cluding 8. Successful and the seeming of the contracts.  9. Increase Amount of the contracts.  10. Increase Amount of the contracts.  10. Increase Amount of the contracts.  11. Increase Amount of the contracts.  12. Increase Amount of the contracts.  13. Increase Amount of the contracts.  14. Increase Amount of the contracts.  14. Increase Amount of the contracts.  15. Increase Amount of the contracts.  16. Increase Amount of the contracts.  17. Increase Amount of the contracts.  18. Increase Amount of the contracts.  19. Increase Amount of the contracts.  19. Increase Amount of the contracts.  19				
8. Permiture and amulty considerations for life and accident and health contracts accident and health permiture.  1. Certifical biolitifier and included elevatives.  9. 2 Provision for expensione amiliary elevations, including \$ accident and health expensions require funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is for moderal loss ratio rebate per the Public Health Expensions rating funds of which 3 is assumed and \$ 15,581,234 in				
5 Genome to include determine to control trobuling 5 accident and health permittine 4 Service Act	7.			
9. Contract liabilities and included describere.	8.			
9.1 Surrender values on canceled contracts   2.2 Provision for expension and profunds, including the liability of 5 according to 17, 195, 188   10, 397, 827   17, 195, 188   10, 397, 827   18, 391, 224   18, 391, 2				
9.2 Provision for experience sating refunds, including the siability of source and experience rating refunds of which \$ is for medical loss ratio refunds loss ratio refunds some ratio refunds some refunds from the state of the provision of of the	9.			
Service Act				
9.3 Other amounts payable on reinsurance, including \$ assumed and \$ 15, 581, 234   6.6 A timesed Maintenance Research   6. Septiment   7. 383		experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health		
9.3 Other amounts payable on reinsurance, including \$ assumed and \$ 15, 581, 234   6.6 A timesed Maintenance Research   6. Septiment   7. 383			17, 165, 136	10,979,627
9.4 Interest Maintenance Reserve   7,833   5,82,918		9.3 Other amounts payable on reinsurance, including \$ assumed and \$		
Commissions to agents due or accrued-life and annuity contracts \$ 7,383 accident and health \$ \$ an and deposit-type contract frains \$ 7,383 \$ 30,525				
S	10	9.4 IIIIEIESI MAINTENANCE KESEIVE	760,358	832,918
1.1.   Commissions and expenses allowances payable on eninsurance assumed	10.	\$ and deposit-type contract funds \$	7 383	303 552
2.5 General expenses ob or accrued (net) (including \$   (295.411) accrued for expense allowances recognized in reserves, net of reinsured allowances)   (2,560,629)   4,554,521   1,7	11.			
allowances recognized in reserves, net of reinsured allowances)   (2,580,029)   4,634,241   174, 174, 174, 174, 174, 174, 174, 174,	12.	General expenses due or accrued		
14   Taxes, licenses and fees due or accrued, excluding federal income taxes   14, 478   119,868     15   Current federal and foreign income taxes, including \$ (6.422,932) on realized capital gains (losses)   978,006   1,982,705     15   Vet deferred tax liability   1,982,705   1,982,705     17   Amounts withheld or relained by reporting entity as agent or trustee   77,680   42,733     18   Amounts withheld or relained by reporting entity as agent or trustee   77,680   42,733     18   Amounts withheld or relained by reporting entity as agent or trustee   77,680   42,733     18   Amounts withheld or relained by reporting entity as agent or trustee   77,680   42,733     19   Amounts withheld or relained by reporting entity as agent or trustee   7,680,294   1,497,241     19   Amounts withheld or relained by reporting entity as agent or trustee   7,680,294   1,497,241     10   Amounts withheld or relained by reporting entity as agent or trustee   7,680,294   1,497,241     10   Amounts withheld or relained by reporting entity as agent or trustee   7,680,294   1,497,241     11   Amounts withheld or service and agent and relative towe   7,680,293   6,881,096     24   Amounts with a standard and unpaid   4,892,294   1,992,294	13.	Transfers to Separate Accounts due or accrued (net) (including \$(296,441) accrued for expense		
1.5   Current federal and foreign income taxes, including \$				
15.2 Net deferred tax liability		Laxes, licenses and fees due or accrued, excluding federal income taxes	4,4/8	139,958
16.   December Investment income				
17. Amounts withheld or retained by reporting entity as agent of trustee				
18. Amounts held for agents' account, including \$ agents' credit balances   543,234   1,497,241     19. Remittances and items not allocated   543,234   1,497,241     20. Net adjustment in assets and liabilities due to foreign exchange rates   543,234     21. Liability for benefits for employees and agents in froi included above   543,234     22. Dividents to stockholders declared and unpaid   543,234     23. Dividents to stockholders declared and unpaid   544,034     24. Miscellaneous liabilities   7,080,238   6,681,096     24.10 Reinsurance in unauthorized and certified (\$ ) ) companies   24.04 Payable to parent, subsidiaries and affiliates   7,080,238   7,994     24.05 Payable to parent, subsidiaries and affiliates   7,994     24.06 Payable to parent, subsidiaries and affiliates   7,994     24.07 Funds held under remissance treaties with unauthorized and certified (\$ )   1,994     24.07 Funds held under remissance treaties and affiliates   7,994     24.07 Funds held under remissance treaties   7,994     24.07 Funds held under solution   7,994     24.08 Payable for securities   7,994     24.09 Payable for securities   7,994     24.09 Payable for securities   7,994     24.10 Capital notes \$   8,81,726     24.11 Capital notes \$   8,81,726     24.11 Capital notes \$   271,634   300,551     25. Total liabilities excluding Separate Accounts business (Lines 1 to 25)   200,046,254   200,848,355     25. Total liabilities (Lines 26 and 27)   4,809,483,553   4,700,744,634     26. Common capital stock   7,700,744,634     27. Form Separate Accounts Statement   7,400,449,554     28. Common capital stock   7,700,744,634     29. Common capital stock   7,700,744,634     29. Common capital stock   7,700,744,634     30. Common capital stock   7,700,744,634     3				
20. Net adjustment in assets and liabilities due to foreign exchange rates		Amounts held for agents' account, including \$ agents' credit balances agents' credit balances		
2.1 Liability for benefits for employees and agents if not included above   2.2 Borrowed money \$ and interest thereon \$   2.2 Dividends to stockholders declared and unpaid .  2.4 Miscellaneous liabilities   2.4 of Asset valuation reserve   7,080,288   6,881,096   2.4 0.3 Funds held under reinsurance treaties with unauthorized and certified (\$ ) companies   2.4 0.4 Punds held under reinsurance treaties with unauthorized and certified (\$ ) reinsurers   2.4 0.5 Punds held under crinsurance treaties with unauthorized and certified (\$ ) reinsurers   2.4 0.5 Punds held under coinsurance   2.4 0.5 Punds held under coinsurance   2.4 0.6 Punds held under coinsurance   2.4 0.7 Funds held under coinsurance   2.4 0.9 Payable for securities   2.4 1.1 Capital notes \$   2.5 Aggregate write-ins for itabilities   2.7 1.634   2.8 2.7 Funds held under coinsurance   2.9 Aggregate write-ins for itabilities   2.0 1.4 5.0 489 29.0 4, 4566 889 381 31 22   2.6 Total liabilities excluding Separate Accounts business (Lines 1 to 25)   2.7 Form Separate Accounts Statement   2.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5				
22 Borrowed money \$				
Dividencts to stockholders declared and unpaid		· · · · · · · · · · · · · · · · · · ·		
24.0 Miscellaneous liabilities:   24.01 Asset valuation reserve   2.4.02 Reinsurance in unauthorized and certified (\$ ) companies   24.03 Fernisurance in unauthorized and certified (\$ ) reinsurers   24.04 Payable to parent, subsidiaries and affiliates   24.04 Payable to parent, subsidiaries and affiliates   24.05 Payable to parent, subsidiaries and affiliates   24.05 Liability for amounts held under uninsured plans   24.05 Liability for amounts held under uninsured plans   24.07 Franch held under coinsurance   24.07 Payable for securities   24.10 Payable for securities   27.1 8.94   300.551   200.004.254   200.004.254   200.004.254   200.004.254   200.004.255   200.004.2				
24.01 Asset valuation reserve		·		
24.02 Reinsurance in unauthorized and certified (\$ ) companies 24.03 Protofs held under reinsurance treaties with unauthorized and certified (\$ ) reinsurers 24.04 Payable to parent, subsidiaries and affiliates 24.05 Lability for amounts held under uninsured plans 24.07 Funds held under coinsurance 24.07 Protofs held under coinsurance 24.09 Derivatives 24.09 Derivatives 24.00 Payable for securities 24.10 Payable for securities 24.10 Payable for securities lending 24.11 Capital notes \$	2-4.		7.080.238	6.881.096
24.03 Funds held under reinsurance treatles with unauthorized and certified (\$ ) reinsurers 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 24.09 Payable for securities 24.10 Payable for securities iending 24.11 Capital notes \$		24.02 Reinsurance in unauthorized and certified (\$		
24 05 Drafts outstanding		24.03 Funds held under reinsurance treaties with unauthorized and certified (\$		
24.06 Liability for amounts held under uninsured plans 24.07 Prunds held under coinsurance 24.08 Derivatives 24.09 Payable for securities 24.10 Payable for securities lending 24.11 Capital notes \$ 24.10 Payable for securities lending 25. Augregate write-ins for liabilities 271.634 200.051 26. Total liabilities excluding Separate Accounts business (Lines 1 to 25) 27. From Separate Accounts Statement 28. Augregate write-ins for separate Accounts business (Lines 1 to 25) 28. Total liabilities (Lines 26 and 27) 29. 4. 509, 883, 813 28. Total liabilities (Lines 26 and 27) 29. 4. 509, 883, 813 29. Common capital stock 20. 500, 200 20. Preferred capital stock 20. 500, 200 20. Preferred capital stock 20. Surplus notes 20. Surplus notes 20. Surplus notes 20. Unassigned funds (surplus) 30. Unassigned funds (surplus) 31. Aggregate write-ins for special surplus funds 32. Unassigned funds (surplus) 33. Gross paid in and contributed surplus 34. Aggregate write-ins for special surplus funds 35. Unassigned funds (surplus) 36. Less treasury stock, at cost 36.1 36.1 36.1 37. Surplus fotal Lines 31+32+33+34+35-36) (including is in Separate Accounts Statement) 38. Surplus fotal Lines 31+32+33+34+35-36) (including is in Separate Accounts Statement) 39. 255, 685, 688 249, 642, 774 30. Totals of Lines 29 and 38 (Page 2, Line 28, Col. 3) 50. 50. 50, 679, 442 50. 50, 50, 50, 679, 442 50. 50, 50, 50, 679, 680 50. Surmmary of remaining write-ins for Line 25 from overflow page 50. Funds avail fing escheal 50. Surmmary of remaining write-ins for Line 31 from overflow page 50. Totals (Lines 3101 through 3103 plus 3198) (Line 25 above) 50. Surmmary of remaining write-ins for Line 34 from overflow page 50. Totals (Lines 3101 through 3103 plus 3198) (Line 25 above) 50. Surmmary of remaining write-ins for Line 34 from overflow page 50. Totals (Lines 3101 through 3103 plus 3198) (Line 31 above)				
24.07 Funds held under coinsurance 24.09 Payable for securities 24.09 Payable for securities 24.10 Payable for securities 24.11 Capital notes 5 25. Aggregate write-ins for liabilities 26. Total fabilities excluding Separate Accounts business (Lines 1 to 25) 27. From Separate Accounts Statement 28. Total fabilities excluding Separate Accounts business (Lines 1 to 25) 29. Total fabilities (Sex Cines 2 and 27) 29. Total fabilities (Sex Cines 2 and 28) 20. Total fabilities (Sex Cines 2 and 28) 20. Total fabilities (Lines 31+32+33+34+35-36) (Including \$ in Separate Accounts Statement) 29. Totals of Lines 29 and 38 (Page 2, Line 28, Col. 3) 29. Totals of Lines 29 and 38 (Page 2, Line 28, Col. 3) 20. Totals (Lines 31-13-24-33-34) (Line 26 above) 20. Totals (Lines 20 in through 3103 plus 3198)(Line 25 above) 20. Totals (Lines 20 in through 3103 plus 3198)(Line 25 above) 20. Totals (Lines 23 in through 3103 plus 3198)(Line 25 above) 20. Totals (Lines 20 in through 3103 plus 3198)(Line 25 above) 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 20. Summary of remaining write-ins for Line 34 from overflow page 20. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)		· · · · · · · · · · · · · · · · · · ·		
24.09 Payable for securities				
24.09 Payable for securities 24.10 Payable for securities lending 24.11 Capital notes \$				
24.11 Capital notes \$ and interest thereon \$ 25. Aggregate write-ins for itabilities				
25     Aggregate write-ins for liabilities     271, 634     300, 551       26     Total liabilities excluding Separate Accounts business (Lines 1 to 25)     200, 004, 254     200, 840, 829       27     From Separate Accounts Statement     4,600, 489, 289     4,569, 883, 813       28     Total liabilities (Lines 26 and 27)     4,800, 489, 553     4,770, 724, 634       29     Common capital stock     2,500, 200     2,500, 200       31     Aggregate write-ins for other than special surplus funds     31       32     Surplus notes     143,736, 914     143, 736, 914       33     Gross paid in and contributed surplus     111,948,774     105,905,800       36     Less treasury stock, at cost:     36.1     111,948,774     105,905,800       36     Surplus (Total Lines 31+32+33+34+35-30) (including 5     in Separate Accounts Statement)     255,685,688     249,642,774       37     Surplus (Total Lines 28 and 38 (Page 2, Line 28, Col. 3)     in Separate Accounts Statement)     255,685,688     249,642,774       39     Totals of Lines 29, 30 and 37     258, 185,888     252,712,974       39     Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)     5,058,679,442     5,022,867,608       2503     Foundation of the color		,		
Total liabilities excluding Separate Accounts business (Lines 1 to 25)				
From Separate Accounts Statement				
Total liabilities (Lines 26 and 27)				
29. Common capital stock		·		
30   Preferred capital stock   Aggregate write-ins for other than special surplus funds				
31.   Aggregate write-ins for other than special surplus funds				
33. Gross paid in and contributed surplus		Aggregate write-ins for other than special surplus funds		
34. Aggregate write-ins for special surplus funds				
35. Unassigned funds (surplus)				
36. Less treasury stock, at cost: 36.1	l l			
36.1 shares common (value included in Line 29 \$ 36.2 shares preferred (value included in Line 30 \$ )			11,340,774	, 505, 500
36.2 shares preferred (value included in Line 30 \$ )	55.			
37.       Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)       255,685,688       249,642,774         38.       Totals of Lines 29, 30 and 37       258,185,888       252,142,974         39.       Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)       5,058,679,442       5,022,867,608         DETAILS OF WRITE-INS         2501.       Miscel laneous liabilities       214,509       248,868         2502.       Funds awaiting escheat       57,126       51,683         2503.       Summary of remaining write-ins for Line 25 from overflow page       271,634       300,551         3101.       3101.       3102.       3103.       3103.       3103.       3104.       3104.       3105.       3106.       3107.				
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)   5,058,679,442   5,022,867,608	37.	Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)		
DETAILS OF WRITE-INS   214,509   248,868   2502   Funds awaiting escheat   57,126   51,683   2503   2598   Summary of remaining write-ins for Line 25 from overflow page   271,634   300,551   3101   3102   3103   3108   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   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins for Line 34 from overflow page   3498   Summary of remaining write-ins fo		·		
2501. Miscellaneous liabilities       214,509       248,868         2502. Funds awaiting escheat       57,126       51,683         2503.       57,126       51,683         2598. Summary of remaining write-ins for Line 25 from overflow page       271,634       300,551         3101.       3102.       3103.       3103.       3103.       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.       3408. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 from overflow page       3498. Summary of remaining write-ins for Line 34 fr	39.		5,058,679,442	5,022,867,608
2502. Funds awaiting escheat       57,126       51,683         2503.       57,126       51,683         2598. Summary of remaining write-ins for Line 25 from overflow page       271,634       300,551         3101.       3102.       3103         3108. Summary of remaining write-ins for Line 31 from overflow page       3198. Summary of remaining write-ins for Line 31 above)         3401.       3401.         3402.       3403.         3498. Summary of remaining write-ins for Line 34 from overflow page       3498.	2504		044 500	040 000
2503.	I			,
2598. Summary of remaining write-ins for Line 25 from overflow page	1			
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)       271,634       300,551         3101.	1			
3101	l l			
3103	3101.			
3198. Summary of remaining write-ins for Line 31 from overflow page	1			
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)  3401				
3401	l l	, , , , , , , , , , , , , , , , , , , ,		
3402. 3403. 3498. Summary of remaining write-ins for Line 34 from overflow page				
3403				
3498. Summary of remaining write-ins for Line 34 from overflow page	1			
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)				
	3499.	Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)		

# **SUMMARY OF OPERATIONS**

35. Net income (Line 33 plus Line 34)   6,619,142   1,426,728   14,869,955			1	2	3
1. Personal and analys considerations to till and adaptive and results controlled.   1,211,009, 100, 100, 100, 100, 100, 100, 10					
2. Conversements for supplementary contracts with fill configencies.  Non-incompany communications of the contract of the cont					
3					,
4 Americanism of horizon formation confidency intentitional grant or forecasts of Security of Lange Processing Confidency intentitional grant or forecasts of Security of Lange Processing Confidency in Confidency (1997)					,
Segretario Accounts et egipant from consideration evoluting unrealized gains on lossess   2, 544,78   2, 528,88   19,200   20   20   20   20   20   20   20	-	Amortization of Interest Maintenance Reserve (IMR)	52 215	60 763	
6. Commissions and expenses allowances on relevanues coded					
1.00   1.00					
8. Honors the base associated with investment meniagement, softnitritipation and contract 8. Charges and feet for deposit hype contracts 9. Charges (1986) 1. (1987) 1.		Reserve adjustments on reinsurance ceded	(19,505,886)	(21,617,589)	(112,807,912)
guarantees from Segrovich Accounts  2 2 03 0.47 2 5 0.000 37 7 73, 0.07 75  2 2 Changes on flee for opposed processors  (094 687) 5 5 (21-00) 1 (8.5 77 5)  1 7 100 684 (United 1 to 8.3) 5 5 (21-00) 1 (8.5 77 5)  1 8 10 100 684 (United 1 to 8.3) 5 5 (21-00) 1 (8.5 77 5)  1 10 100 684 (United 1 to 8.3) 5 (21-00) 1 (8.5 77 5)  1 11 Multipute endocominatic security guaranteed annual bure endocentarity  1 12 10 10 10 10 10 10 10 10 10 10 10 10 10	8.				
2. Changes and less for deposit open contracts 2. A page page of the for the contractance in a contract of the		8.1 Income from fees associated with investment management, administration and contract			
8 Agrophic witherfer for miscellaneous income					
5   Totals Claims 1 to 8.0   5,100.65   5,201.66   13,207.85   5,501.66   13,207.85   10   202.00   13,207.85		, ,,			
10. Death berefits		29 2			. , , ,
1.1 Matures encomments executing guaranteed animal pure encomments	_		, , .		
12	-		, ,	, ,	, ,
13. Disability benefits and benefits under accident and health contracts.   77,93   72,69   55,856					
14.   Courson, guaranteed amuse pure ondownman and similar bonetits   1,100,144   591,268   3,458,507					
15   Survenide benefits and withdrawask for life contractes					
16.   Course forms   1,000		Surronder benefits and withdrawals for life contracts	1 106 144	591 296	3 458 507
171   Interest and argustaments on contract or deposit type contract funds   400,350   1,096,106   2,003,350   1,096,106   2,003,350   1,000,406   3,000   1,000,400   3,000   1,000,400   3,000   3	-				-, - ,-
18   Payments on supplementary contracts with life contingencies   35   32   13   284   30   789		Interest and adjustments on contract or denosit-type contract funds	400.366	1 098 106	
15   Increase in aggregative reserves for life and accident and health continueds   (508, 222)   3.383, 311   (1,507, 375   3.00   3.		Payments on supplementary contracts with life contingencies	25 132	13 294	80 799
20		Increase in addredate reserves for life and accident and health contracts	(508, 222)		
2.1. Commissions on premiums, annuity consisterations, and deposit-type contract funds (direct business)   466, 442   A77, 619   1,873,088   220   Commissions and expenses allowance on relaturations and expenses allowance on relaturations and expenses allowance on relaturations   1,647,645   3,08,387   33,3768   337					
Districtions only		Commissions on premiums, annuity considerations, and deposit-type contract funds (direct			, ,
Commissions and openine allowances on reinsurance assumed.   1,647 663   3,033,387   5,520,779		business only)	466,442	477,619	1,873,088
24	22.	Commissions and expense allowances on reinsurance assumed			
24	23.	General insurance expenses and fraternal expenses	1,647,643	3,038,387	6,520,179
26. Net transfers to or (from) Separate Accounts net of reinsurance		Insurance taxes, licenses and fees, excluding federal income taxes	213,758	337,926	750,702
27. Aggregate write-ins for deductions					
28.   Totals (Lines 20 to 27)					
2.2. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus   8,013,314   757,711   15,887,654		99 9		. , , ,	. , , ,
Line 28			. , , ,	4,863,779	(29,394,989)
30. Dividends to policyhoddra and refunda to members	29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus	0 010 014	757 711	1E 007 CEA
131 Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Linu 29 minus Linu 50)   1,084,653 (884,650)   1,082,915	20		8,013,314	/5/,/11	15,887,654
income taxes (Line 29 minus Line 30)		' '			
22   Federal and foreign income taxes incurred (excluding tax on capital gains)   1,084,053   (684,650)   1,002,915	31.	income taxes (Line 29 minus Line 30)	8 013 314	757 711	15 887 654
33. Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital gains (cosses) (Leva 51 minus Line 32).   34. Net realized capital gains (cosses) (Leva 51 minus Line 32).   35. Net Income (Line 33) plus Line 34).   36. Service (Line 34) plus Line 34).   37. Net Income (Line 35) plus Line 34).   38. Capital and surplus, December 31, prior year (Service) (Line 36).   39. Net Income (Line 36).   39. Change in net unrealized capital gains (losses) (sesse) sess capital gains tax of \$ (18)).   40. Change in net unrealized capital gains (losses) (sesse) (ses	32				
taxés and before realized capital gains or (icosesé) (Lune 31 minus Line 32).  4. Not realized capital gains (icoses) (excluding gains (losses) transferred to the MR) less capital gains tax of \$  199 (excluding taxes of \$  1,488,739  35. Net income (Line 33 plus Line 34)  36. Capital and surplus, December 31, prior year  37. Net income (Line 35)  38. Capital and surplus, December 31, prior year  38. Capital and surplus, December 31, prior year  39. Capital and surplus, December 31, prior year  39. Change in net unrealized capital gains (losse) less capital gains tax of \$  40. Change in net unrealized capital gains (losse)  40. Change in net unrealized capital gains (losse)  41. Change in net unrealized capital gains (losse)  42. Change in liability for reinsurance in unauthorized and certified companies  43. Change in liability for reinsurance in unauthorized and certified companies  44. Change in saset valuation reserve  45. Change in treasury stock  46. Surplus (contributed to) withdrawn from Separate Accounts during period  47. Other change is surplus notes  48. Cumulative effect of changes in accounting principles  50. 2 Transferred to capital (Stock Dividend)  51. 3 Tarnsferred to surplus (Stock Dividend)  51. 3 Tarnsferred for surplus (Stock Dividend)  51. 3 Tarnsferred for surplus (Stock Dividend)  52. Tarlsferred for capital (Stock Dividend)  53. Aggregate write-ins for gains and losses in surplus  54. Ober Alla (Lines 08.30) through on Says 18. Says 18. Says 26. Says 194, 41. 14. Says 197, 11.	-	Net gain from operations after dividends to policyholders, refunds to members and federal income	, ,	, , ,	· · · · · · · · · · · · · · · · · · ·
34 Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR)   (5.48)     transferred to the IMR)   (330,119)   4,366   (14,780)     Transferred to the IMR)   (5.619,142   1,26,778   14,869,959     Capital and surplus, December 31, prior year   252,142,974   265,429,591   266,429,591   269,429		taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	6,949,261	1,422,361	14,884,739
Transferred to the MIR	34.				
35. Net income (Line 33 plus Line 34)		gains tax of \$			
Capital and surplus, December 31, prior year   252, 142,974   265, 429,591   225, 429,591   37. Net income (Line 35)   5.0 Change in net urrealized capital gains (losses) less capital gains tax of \$ (190)   (677)   (52,200)   191,410   (193,400)   (193,400		transferred to the IMR)	( , -,	4,366	(14,780)
36   Capital and surplus. December 31, prior year   252, 142, 974   265, 429, 591   265, 429, 591   37. Net Income (Lina 55)   6, 619, 142   1, 426, 728   14, 889, 593   38. Change in net urnealized capital gains (losses) less capital gains tax of \$ (180)   6, 619, 147   1, 426, 728   14, 889, 593   40. Change in net urnealized capital gains (losses)   191, 410   40. Change in net urnealized foreign exchange capital gain (loss)   (1, 063, 261   41. Change in Ine differed income tax   (217, 348)   (509, 705)   (1, 063, 261   41. Change in Ine differed income tax   (192, 101   684, 509   1, 037, 047   42. Change in Inediatily for cristurance in unauthorized and certified companies   192,010   884,509   1, 037, 047   43. Change in reserve on account of change in valuation basis, (increase) or decrease   (199, 141)   243,612   (824, 846   44. Change in asset valuation reserve   (199, 141)   243,612   (824, 846   45. Change in treasury stock   (199, 141)   243,612   (824, 846   45. Change in surplus in Separate Accounts during period   (199, 141)   243,612   (824, 846   45. Change in surplus in Separate Accounts during period   (199, 141)   243,612   (824, 846   45. Change in surplus in Separate Accounts during period   (199, 141)   243,612   (824, 846   45. Change in surplus in Separate Accounts during period   (199, 141)	35.	Net income (Line 33 plus Line 34)	6,619,142	1,426,728	14,869,959
37. Net income (Line 35)					
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ (180) (677) (52,260) 191,410 39. Change in net unrealized foreign exchange capital gain (loss) (217,348) (509,705) (1, 683,891) 40. Change in net deferred income tax (10, 684,509) (1, 683,891) 41. Change in net deferred income tax (10, 684,509) (1, 683,891) 42. Change in Ineaserve on account of change in valuation basis, (increase) or decrease (199,141) (243,612) (684,509) (1, 684,509) 43. Change in asset valuation reserve (199,141) (243,612) (624,846) 44. Change in asset valuation reserve (199,141) (243,612) (624,846) 45. Change in treasury stock (199,141) (243,612) (624,846) (199,141) (243,612) (624,846) (199,141) (1	36.				
Change in net unrealized foreign exchange capital gain (loss)	37.				
40. Change in net deferred income tax	38.				
41. Change in nonadmitted assets   192,010   684,509   1,037,047		Change in net unrealized foreign exchange capital gain (loss)			
42. Change in lability 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					
43. Change in reserve on account of change in valuation basis, (increase) or decrease 44. Change in asset valuation reserve 45. Change in sast valuation reserve 46. Surplus (contributed to) withdrawn from Separate Accounts during period 47. Other changes in surplus in Separate Accounts during period 48. Change in surplus in Separate Accounts during period 49. Cumulative effect of changes in accounting principles 50. Capital changes: 50. 1 Paid in 50. 2 Transferred from surplus (Stock Dividend) 50. 3 Transferred to surplus 51. Surplus adjustment: 51.1 Paid in 51.2 Transferred to capital (Stock Dividend) 51.3 Transferred from capital 51.4 Change in surplus as a result of reinsurance 52. Dividends to stockholders 53. Aggregate write-ins for gains and losses in surplus 54. Net change in capital and surplus for the year (Lines 37 through 53) 55. DETALS OF WRITE-INS 68.302 (Iliseal Lines OF WRITE-INS) 68.302 (Iliseal Lines OF WRITE-INS) 68.303. Management and administrative fees 68.308. Surnmary of remaining write-ins for Line 8.3 from overflow page 68.309. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above) 69.404. Explain and surplus of remaining write-ins for Line 8.3 from overflow page 69.502. Surplus capital laneous charges to operations 69.503. Details (Lines 10.301 through 08.303 plus 08.398) (Line 8.3 above) 69.503. Summary of remaining write-ins for Line 8.3 from overflow page 69.309. Totals (Lines 20.301 through 08.303 plus 08.398) (Line 8.3 above) 69.503. Summary of remaining write-ins for Line 27 from overflow page 69.503. Summary of remaining write-ins for Line 27 from overflow page 69.503. Summary of remaining write-ins for Line 25 from overflow page 69.503. Summary of remaining write-ins for Line 53 from overflow page 69.503. Summary of remaining write-ins for Line 53 from overflow page 69.503. Summary of remaining write-ins for Line 53 from overflow page 69.503. Summary of remaining write-ins for Line 53 from overflow page 69.503. Summary of remaining write-ins for Line 53 from overflow					
44. Change in asset valuation reserve (199,141) 243,612 (824,846 45. Change in treasury slock					
46. Change in treasury stock 47. Other changes in surplus in Separate Accounts Statement 48. Change in surplus in Separate Accounts Statement 49. Cumulative effect of changes in accounting principles 50. Capital changes: 50.1 Paid in 50.2 Transferred from surplus (Stock Dividend) 50.3 Transferred to surplus 50.1 Paid in 50.2 Transferred to capital (Stock Dividend) 51.2 Transferred to capital (Stock Dividend) 51.3 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 54. Net change in capital and surplus, as of statement date (Lines 37 through 53) 55. Capital and surplus, as of statement date (Lines 36 + 54)  DETAILS OF WRITE-INS  DETAILS OF WRITE-INS  DETAILS OF WRITE-INS  08.301. Management and administrative fees (374, 858) (37		Change in reserve on account of change in valuation basis, (increase) of decrease	(100 141)	2/2 612	(924 946)
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. 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 54. Net change in capital and surplus for the year (Lines 37 through 53) 55. Capital and surplus, as of statement date (Lines 36 + 54) 56. Capital and surplus, as of statement date (Lines 36 + 54) 57. DETAILS OF WRITE-INS 68.301. Management and administrative fees 69.302. Miscel laneous 69.303. Revue shar ring 69.303. Revue shar ring 69.303. Revue shar ring 69.304. Summary of remaining write-ins for Line 8.3 from overflow page 69.309. Wiscel laneous charges to operations 69.301. Wiscel laneous charges to operations 69.302. Wiscel laneous charges to operations 69.303. Revue shar ring 70. Teleinsurance ceded adjustment 70. Capital summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 27 from overflow page 70. Summary of remaining write-ins for Line 53 from overflow page 70. Summary of remaining write-ins for Line					
47. Other changes in surplus in Separate Accounts Statement					
48. Change in surplus notes  49. Cumulative effect of changes in accounting principles  50. Capital changes:  50.1 Paid in  50.2 Transferred from surplus (Stock Dividend)  50.3 Transferred to surplus  51.1 Paid in  51.1 Paid in  51.2 Transferred to capital (Stock Dividend)  51.3 Transferred to capital (Stock Dividend)  51.3 Transferred from capital  51.4 Change in surplus as a result of reinsurance  51.4 Change in surplus as a result of reinsurance  52. Dividends to stockholders  53. Aggregate write-ins for gains and losses in surplus  54. Net change in capital and surplus for the year (Lines 37 through 53)  55. Capital and surplus, as of statement date (Lines 36 + 54)  56. Capital and surplus, as of statement date (Lines 36 + 54)  57. DETAILS OF WRITE-INS   58. 08.301. Management and administrative fees  59. 08.302. Miscel laneous  59. 08.303. Nevenue shar ring  59. 08.303. Nevenue shar ring  59. 08.304. Summary of remaining write-ins for Line 8.3 from overflow page.  59. 08.305. Nevenue schar ring  50. 2701. Pelinsurance ceded adjustment  50. 2702. Miscel laneous charges to operations  50. 2703. 2703. 2709. Totals (Lines 2701 through 08.303 plus 08.398) (Line 8.3 above)  50. 2704. Pelinsurance ceded adjustment  50. 2709. Visicel laneous charges to operations  50. 2709. Visicel laneous cha		1 ( )			
49. Cumulative effect of changes in accounting principles  Capital changes: 50.1 Paid in 50.2 Transferred from surplus (Stock Dividend) 50.3 Transferred to surplus 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 51.4 Change in surplus as a result of reinsurance 52. Dividends to stockholders 53. Aggregate write-ins for gains and losses in surplus 54. Net change in capital and surplus for the year (Lines 37 through 53) 55. Capital and surplus, as of statement date (Lines 36 + 54)  DETAILS OF WRITE-INS  08.301. Management and administrative fees (374, 858) 08.303. Revenue shar ring 08.304. Miscel laneous (24, 633) 08.305. Revenue shar ring 08.309. Totals (Lines 08.301 through 08.303 plus 08.309) (Line 8.3 above) (204, 647) (428, 249) (428, 249) (1, 401, 707 2701. Reinsurance ceded adjustment (351, 071) (374, 124) (1, 496, 495 (2702. Miscel laneous charges to operations (34), 071) (374, 124) (1, 496, 495 (2703. Summary of remaining write-ins for Line 27 from overflow page (2703. Summary of remaining write-ins for Line 27 from overflow page (385, 142) (193, 879) (1, 600, 474 (1, 496, 495 (1, 496, 49		- · · · · · · · · · · · · · · · · · · ·			
50. Capital changes:					
50.1 Paid in 50.2 Transferred from surplus (Stock Dividend) 50.3 Transferred to surplus (Stock Dividend) 50.3 Transferred to surplus 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 (26,000,000 51.3 Transferred from capital 51.4 Change in surplus as a result of reinsurance (26,000,000 52.2 Dividends to stockholders (26,000,000 53.3 Aggregate write-ins for gains and losses in surplus (26,000,000 54.4 Change in capital and surplus for the year (Lines 37 through 53) (351,071) (374, 124) (1,496,495 14.4 Change in capital and surplus for the year (Lines 37 through 53) (36,042,914 1,418,761 13,286,616 15.5 Capital and surplus, as of statement date (Lines 36 + 54) (258,185,888 266,848,351 252,142,974 14.5 Capital and surplus as of statement date (Lines 36 + 54) (258,185,888 266,848,351 252,142,974 14.5 Capital and surplus and administrative fees (374,858) (313,146) (1,646,078 16.0		0 1 1			
50.2 Transferred from surplus (Stock Dividend) 50.3 Transferred to surplus 51.5 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 54. Net change in capital and surplus for the year (Lines 37 through 53) 55. Capital and surplus, as of statement date (Lines 36 + 54) 56. Capital and surplus, as of statement date (Lines 36 + 54) 57. DETAILS OF WRITE-INS 58. 30.3 Miscel Ianeous 59. 30.3 Miscel Ianeous 59. 30.3 Nevenue shar ing 59. 30.3 Nummary of remaining write-ins for Line 8.3 from overflow page 59. 30.3 Nummary of remaining write-ins for Line 8.3 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50. 30.3 Nummary of remaining write-ins for Line 27 from overflow page 50.3 Nummary of remaining write-ins for Line 27 from overflow page 50.3 Nummary of remaining write-ins for Line 27 from overflow page 50.3 Nummary of remaining write-ins for Line 27 from overflow page 50.3 Nummary of remaining write-ins for Line 28 from overflow page 50.3 Nummary of remaining write-ins for Line 53 from overflow page 50.3 Nummary of remaining write-ins for Line 53 from overflow page 50.3 Nummary of remaining write-ins for Line 53 from overflow page 50.3 Nummary of remaining write-ins for Line 53 from overflow page					
51. Surplus adjustment:       51.1 Paid in         51.2 Transferred to capital (Stock Dividend)       51.2 Transferred from capital         51.3 Transferred from capital       (26,000,000         52. Dividends to stockholders       (351,071)       (374,124)       (1,496,495         53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue shar ing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       (374,124)       (1,496,495         2703. 3       (378,071)       (374,124)       (1,496,495		50.2 Transferred from surplus (Stock Dividend)			
51.1 Paid in       51.2 Transferred to capital (Stock Dividend)         51.2 Transferred from capital       (26,000,000         51.4 Change in surplus as a result of reinsurance       (26,000,000         52 Dividends to stockholders       (351,071)       (374,124)       (1,496,495         54 Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55 Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (351,071)       (374,124)       (1,496,495         2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)       (		50.3 Transferred to surplus			
51.2 Transferred to capital (Stock Dividend)       51.3 Transferred from capital       (26,000,000         52. Dividends to stockholders       (26,000,000         53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078)         08.302. Miscel I aneous       (24,633)       (373,157)       (630,238)         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       194,844       258,054       874,610         08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)       (204,647)       (428,249)       (1,401,707         2702. Miscel I aneous charges to operations       (34,071)       180,245       436,021         2703. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 27 above)       (385,142)       (193,879)       (1,060,474         2709. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustme	51.				
51.3 Transferred from capital       51.4 Change in surplus as a result of reinsurance       (26,000,000         52. Dividends to stockholders       (26,000,000         53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel I aneous       (24,633)       (373,157)       (630,238         08.303. Revenue shar ing       194,844       258,054       874,610         08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2703. 2703.       Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302. 3303. Summary of remaining write-ins for Line 27 from overflow page					
51.4 Change in surplus as a result of reinsurance       (26,000,000         52. Dividends to stockholders       (26,000,000         53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue shar ing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5302.       (330,071)       (374,124)       (1,496,495         5303.       Summary of remaining		• • •			
52. Dividends to stockholders       (26,000,000         53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue shar ing       194,844       258,054       874,610         08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)       (385,142)       (193,879)       (1,060,474         5302.       3303.       Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495         5303.       Summary of remaining write-ins for		·			
53. Aggregate write-ins for gains and losses in surplus       (351,071)       (374,124)       (1,496,495         54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2703.       (374,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5303.       (385,142)       (193,879)       (1,060,474         5303.       (398,502)       (395,142)       (193,879)       (1,060,474					
54. Net change in capital and surplus for the year (Lines 37 through 53)       6,042,914       1,418,761       (13,286,616         55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2703.       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5302.       (351,071)       (374,124)       (1,496,495         5303.       Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495         5308. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495					
55. Capital and surplus, as of statement date (Lines 36 + 54)       258,185,888       266,848,351       252,142,974         DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (385,142)       (193,879)       (1,060,474         5303.       (351,071)       (374,124)       (1,496,495         5303.       (380,01)       (380,01)       (380,01)       (380,01)         08. Summary of remaining write-ins for Line 53 from overflow page       (380,01)       (380,01)       (380,01)					
DETAILS OF WRITE-INS         08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (353,071)       (374,124)       (1,496,495         5303.       (351,071)       (374,124)       (1,496,495		• • • • • • • • • • • • • • • • • • • •			
08.301. Management and administrative fees       (374,858)       (313,146)       (1,646,078         08.302. Miscel laneous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (385,142)       (193,879)       (1,496,495         5303.       (350,071)       (374,124)       (1,496,495         5308. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495	55.		∠58,185,888	∠00,848,351	202, 142, 9/4
08.302. Miscel Ianeous       (24,633)       (373,157)       (630,238         08.303. Revenue sharing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel Ianeous charges to operations       (34,071)       180,245       436,021         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (351,071)       (374,124)       (1,496,495         5308. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495	09 204		(274 050)	(212 146)	(1 6/6 070)
08.303. Revenue shar ing       194,844       258,054       874,610         08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2703.       2798. Summary of remaining write-ins for Line 27 from overflow page       2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (350.       (351,071)       (374,124)       (1,496,495         5308. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495			, , ,	, , ,	
08.398. Summary of remaining write-ins for Line 8.3 from overflow page       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2703.       2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (385,071)       (374,124)       (1,496,495         5303.       (398. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495			. , ,	, , ,	. , ,
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)       (204,647)       (428,249)       (1,401,707         2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2703.       2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (385,342)       (374,124)       (1,496,495         5303.       (385,342)       (385,342)       (374,124)       (1,496,495         5308. Summary of remaining write-ins for Line 53 from overflow page       (385,342)       (385,		Ÿ	,	,	,
2701. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         2702. Miscel laneous charges to operations       (34,071)       180,245       436,021         2703.       (374,124)       (1,060,474         2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (383,142)       (351,071)       (374,124)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)       (383,142)       (383,142)       (1,496,495)         5303.       (383,142)<					
2702. Miscel laneous charges to operations					
2703.       2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474)         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495)         5302.       (5303)       (5304) <t< td=""><td>2702</td><td>Miscellaneous charges to operations</td><td>(34 071)</td><td>180 245</td><td>436 021</td></t<>	2702	Miscellaneous charges to operations	(34 071)	180 245	436 021
2798. Summary of remaining write-ins for Line 27 from overflow page       (385,142)       (193,879)       (1,060,474)         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495)         5302.       (393,879)       (374,124)       (1,496,495)         5303.       (398, Summary of remaining write-ins for Line 53 from overflow page)       (385,142)       (193,879)       (1,496,495)		· · · · · · · · · · · · · · · · · · ·			
2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)       (385,142)       (193,879)       (1,060,474         5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495         5302.       (3303)       (3303)       (3304)       (33					
5301. Reinsurance ceded adjustment       (351,071)       (374,124)       (1,496,495)         5302.       (351,071)       (374,124)       (1,496,495)         5303.       (374,124)       (374,124)       (1,496,495)         5398. Summary of remaining write-ins for Line 53 from overflow page       (351,071)       (374,124)       (1,496,495)					(1,060,474)
5303. 5398. Summary of remaining write-ins for Line 53 from overflow page			(351,071)	(374, 124)	(1,496,495)
5398. Summary of remaining write-ins for Line 53 from overflow page	5302.				, , ,
5399. Totals (Lines 5301 through 5303 plus 5398)(Line 53 above) (351,071) (374,124) (1,496,495)					
	5399.	Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	(351,071)	(374, 124)	(1,496,495)

# **CASH FLOW**

		1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
	Cash from Operations			
1.	Premiums collected net of reinsurance			
2.	Net investment income	, ,	, ,	
3.	Miscellaneous income	17,624,247	10,521,158	(19,278,017
4.	Total (Lines 1 to 3)	23,280,727	14,996,709	(3,978,956
5.	Benefit and loss related payments			55,490,862
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts			
7.	Commissions, expenses paid and aggregate write-ins for deductions			
8.	Dividends paid to policyholders			
9.	Federal and foreign income taxes paid (recovered) net of \$	0.000.040	(4,000,744)	/5 400 40
	gains (losses)	2,063,343	(1,626,714)	(5,189,43
10.	Total (Lines 5 through 9)	17,747,060	6,755,334	(18,791,25
11.	Net cash from operations (Line 4 minus Line 10)	5,533,667	8,241,375	14,812,30
12.	Cash from Investments  Proceeds from investments sold, matured or repaid:			
12.	12.1 Bonds	6 066 106	1 332 180	5 601 80
		, , -	1,332,109	-, - ,
	12.2 Stocks		60 , 124	
			,	,
	12.4 Real estate			
	12.5 Other invested assets		(4)	,
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	225	(1)	(1,47
	12.7 Miscellaneous proceeds	0.445.004	1 000 010	0 440 40
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	6,115,364	1,392,312	6, 116, 18
13.	Cost of investments acquired (long-term only):			
	13.1 Bonds	5,284,060	192,499	(108,06
	13.2 Stocks			
	13.3 Mortgage loans	1,245	717	4,59
	13.4 Real estate			
	13.5 Other invested assets			191,07
	13.6 Miscellaneous applications	(881,726)		
	13.7 Total investments acquired (Lines 13.1 to 13.6)	4,403,579	193,216	87,60
14.	Net increase (or decrease) in contract loans and premium notes	955,827	3,220,385	3,483,41
15.	Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	755,958	(2,021,289)	2,545,16
	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			
	16.5 Dividends to stockholders			
	16.6 Other cash provided (applied)	(7,093,976)	3,224,474	3,367,98
17.	Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	(7,397,894)	2,426,262	(26,556,22
	RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS			
18.	Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17) .	(1,108,269)	8,646,348	(9,198,76
19.	Cash, cash equivalents and short-term investments:			
	19.1 Beginning of year	111,900,743	121,099,505	121,099,50
	19.2 End of period (Line 18 plus Line 19.1)	110,792,474	129,745,854	111,900,74
	upplemental disclosures of cash flow information for non-cash transactions:  01. Bond conversions and refinancing			1,092,66
	O2. Transfer of bonds to partnerships and LLCs			

# **EXHIBIT 1**

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

	DIRECT PREMIUMS AND DEPOSIT-TYPE C	ONTRACTS		
		1	2	3
		Current Year To Date	Prior Year To Date	Prior Year Ended December 31
		TO Date	10 Date	December 31
1	ladustrial life			
1.	Industrial life			
	Out to the transfer of the tra	2 200 220	0 404 040	07 504 147
2.	Ordinary life insurance		0,404,340	27,524,147
	Outros to the design that	1 000	1 000	4 000
3.	Ordinary individual annuities	1,200	1,200	4,800
	Cradit life (group and individual)			
4.	Credit life (group and individual)			
5.	Group life insurance	(2.764.000)	(1 663 855)	(626, 788)
5.	Group life insurance	(2,704,909)	(1,000,000)	(020,700)
6.	Group annuities			
0.	Group armunes			
7.	A & H - group			
7.	A & Π - group			
8.	A & H - credit (group and individual)			
0.	A & TT - Cledit (group and individual)			
9.	A & H - other			
9.	A & TT - OUIGI			
10.	Aggregate of all other lines of business			
10.	Aggregate of all other lines of business			
11.	Subtotal (Lines 1 through 10)	624 629	6 821 685	26,902,159
11.	Subtotal (Lines 1 tillough 10)	024,029	0,021,000	20,302, 133
12.	Fraternal (Fraternal Benefit Societies Only)			
12.	Traternal (Traternal Benefit Godeties Only)			
13.	Subtotal (Lines 11 through 12)	624 620	6 921 695	26,902,159
13.	Subtotal (Lines 11 tillough 12)	024,029	0,021,003	20,902,139
14.	Deposit-type contracts			
14.	Deposit-type contracts			
15.	Total (Lines 13 and 14)	624,629	6,821,685	26,902,159
13.	Total (Lines 15 and 14)	024,020	0,021,000	20,002,100
	DETAILS OF WRITE-INS			
	DETAILS OF WRITE-INS			
1001.				
1001.				
1002.				
1002.				
1003.				
1003.				
1098.	Summary of remaining write-ins for Line 10 from overflow page			
1090.	Cuminary or remaining write-ins for Line to from overflow page			
1099.	Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)			
1055.	Totals (Lines 1001 tillough 1000 plus 1030)(Line 10 above)			

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#### Note 1 - Summary of Significant Accounting Policies and Going Concern

a. Accounting practices

The accompanying financial statements of MML Bay State Life Insurance Company (the Company) have been prepared in conformity with the Statutory Accounting Practices (SAP) of the National Association of Insurance Commissioners (NAIC) and the accounting practices prescribed or permitted by the State of Connecticut Insurance Department.

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

	SSAP#	F/S Page	F/S Line #		2023		2022
NET INCOME				_		-	
(1) State basis (Page 4, Line 35, Columns 1 & 3)	XXX	XXX	XXX	\$	6,619,142	\$	14,869,959
(2) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A		-		-
(3) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A		<u>-</u>	_	<u>-</u>
(4) NAIC SAP (1-2-3=4)	XXX	XXX	XXX	\$	6,619,142	\$	14,869,959
SURPLUS							
(5) State basis (Page 3, Line 38, Columns 1 & 2)	XXX	XXX	XXX	\$	258,185,889	\$	252,142,975
(6) State prescribed practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A		-		-
(7) State permitted practices that increase/(decrease) NAIC SAP:	N/A	N/A	N/A			_	
(8) NAIC SAP (5-6-7=8)	XXX	XXX	XXX	\$	258,185,889	\$	252,142,975

- Use of estimates in the preparation of the financial statements No change
- c. Accounting policy:
  - (1) No change
  - (2) Bonds are generally valued at amortized cost using the constant yield interest method with the exception of NAIC Category 6 bonds, which are in or near default, and certain residential mortgage-backed securities (RMBS) and commercial mortgage-backed securities (CMBS), which are rated by outside modelers, which are carried at the lower of amortized cost or fair value. NAIC ratings are applied to bonds and other securities. Categories 1 and 2 are considered investment grade, while Categories 3 through 6 are considered below investment grade. Bond transactions are recorded on a trade date basis, except for private placement bonds, which are recorded on the funding date.

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

#### (3-5) No change

(6) For loan-backed and structured securities, such as asset-backed securities, mortgage-backed securities, including RMBS and CMBS, 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.

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

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

(7-14) No change

d. Going concern:

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

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

- a. For the three months ended March 31, 2023 and 2022, the Company did not record any corrections of prior years' errors.
- b. Adoption of new accounting standards No change

## Note 3 – Business Combinations and Goodwill – No change

#### Note 4 - Discontinued Operations - No change

#### Note 5 - Investments

- a. Mortgage loans No change
- b. Debt restructuring No change
- c. Reverse mortgages No change
- d. Loan-backed securities:
  - (1) Prepayment assumptions for loan-backed and structured securities are based on various assumptions and inputs obtained

from external industry sources along with internal analysis and actual experience.

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

		Г	(1)		(2	)		(3)
			( ' )		OT			(0)
			Amortized	Re	cog	nized		
			Cost Basis		in Lo			
		ĺ	Before	(2a)		(2b)		Fair Value
			OTTI	Interest	Ν	lon-interest		1-(2a+2b)
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	_	66,564		-	2,997	_	63,567
C.	Total first quarter	\$	66,564	\$ -	\$	2,997	\$	63,567
OT7								
	I recognized in the second quarter Intent to sell	Φ		¢.	Φ		Φ	
d.		\$	-	<b>5</b> -	ф	-	ф	-
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	\$	<u>-</u>	\$ -	\$	<u>-</u>	<u>¢</u>	
1.	Total second quarter	Ψ		Ψ -	Ψ	<del></del>	Ψ	
OTI	TI recognized in the third quarter							
g.	Intent to sell	\$	_	\$ -	\$	_	\$	_
h.	Inability or lack of intent to retain the investment	_		*	•		*	
	in the security for a period of time sufficient to							
	recover the amortized cost basis		-	-		-		-
i.	Total third quarter	\$	-	\$ -	\$		\$	-
OTT	T 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	_			-		_	
I.	Total fourth quarter	\$		\$ -	\$		\$	
				<del> </del>				
m.	Annual aggregate total			\$ -	\$	2,997		

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
61750FAE0	\$ 66,564	\$ 63,566	\$ (2,997)	\$ 63,566	\$ 59,093	March 31, 2023
Totals	\$ 66,564	\$ 63,566	\$ (2,997)	\$ 63,566	\$ 59,093	

(4) As of March 31, 2023, 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:

a. The aggregate amount of unrealized losses:

1. Less than 12 months	\$	(8,780,879)
2. 12 months or longer	\$	(189,178)
The aggregate related fair value of securities with unrealized l	osses:	

 1. Less than 12 months
 \$ 61,617,589

 2. 12 months or longer
 \$ 3,652,977

(5) No change

b.

- Dollar repurchase agreements and/or securities lending transactions: The Company did not have any dollar repurchase agreements and/or securities lending transactions as of March 31, 2023.
- f. Repurchase agreements transactions accounted for as secured borrowing: The Company did not have any repurchase agreements as of March 31, 2023.
- g. Reverse repurchase agreements transactions accounted for as secured borrowing: The Company did not have any reverse repurchase agreements transactions accounted for as secured borrowing as of March 31, 2023.

- h. Repurchase agreements transactions accounted for as a sale: The Company did not have any repurchase agreements transactions accounted for as a sale as of March 31, 2023.
- i. Reverse repurchase agreements transactions accounted for as a sale: The Company did not have any reverse repurchase agreements transactions accounted for as a sale as of March 31, 2023.
- j. Real estate No change
- k. Low-income housing tax credit No change
- Restricted assets No change
- m. Working capital finance investments: The Company did not invest in working capital finance investments as of March 31, 2023.
- n. Offsetting and netting of assets and liabilities: The Company does not currently hold derivatives, repurchase agreements, reverse repurchase agreements or securities lending assets and liabilities as of March 31, 2023.
- 5GI Securities:

	Investment	Number of 5GI Securities		Aggregate	BACV	Aggregate Fair Value		
		Current Year	Prior Year	Current Year	Prior Year	Current Year	Prior Year	
(1)	Bonds - AC	<b>\$</b> -	\$-	\$-	\$-	\$-	\$-	
		Ψ-	Ψ-	Ψ-	Ψ-	Ψ	Ψ-	
(2)	LB&SS - AC	-	-	-	-	-	-	
(3)	Preferred Stock - AC	-	-	-	-	-	-	
(4)	Preferred Stock - FV	-	-	-	-	-	-	
(5)	Total (1+2+3+4)	\$-	\$-	\$-	\$-	\$-	\$-	

AC - Amortized Cost FV - Fair Value

- p. Short sales The Company does not engage in short sale transactions.
- q. Prepayment penalty and acceleration fees:

Three Months Ended March 31, 2023					
General Account	Separate Account				

- 1. Number of CUSIPS
- 2. Aggregate amount of investment income

\$

- r. Reporting entity's share of cash pool by asset type The Company does not have cash in a qualified cash pool.
- Note 6 Joint Ventures, Partnerships and Limited Liability Companies No change
- Note 7 Investment Income No change

#### Note 8 - Derivative Instruments

The Company did not have any derivative instruments for the three months ended March 31,2023.

Note 9 - Income Taxes - No change

 $\underline{\textbf{Note 10 - Information Concerning Parent, Subsidiaries and Affiliates}} \text{ - No change}$ 

#### Note 11 - Debt

- a. No change
- b. 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

- a. Defined Benefit Plan:
  - (1-3) No change
  - (4) The Company did not have any defined benefit pension plans for which the reporting entity is directly liable.
  - (5-21) No change
- b-i. No change

#### Note 13 - Capital and Surplus, Dividend Restrictions and Quasi-Reorganizations

(a-m) No change

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

- a. Contingent commitments No change
- b. Assessments No change
- c. Gain contingencies No change
- d. Claims related to extra contractual obligations No change
- e. Joint and several liabilities No change

#### All other contingencies:

In the normal course of business, the Company is involved in disputes, litigation and governmental or regulatory inquiries, administrative proceedings, examinations and investigations, both pending and threatened. These matters, if resolved adversely against the Company or settled, may result in monetary damages, fines and penalties or require changes in the Company's business practices. The resolution or settlement of these matters is inherently difficult to predict. Based upon the Company's assessment of these pending matters, the Company does not believe that the amount of any judgment, settlement or other action arising from any pending matter is likely to have a material adverse effect on the statement of financial position. However, an adverse outcome in certain matters could have a material adverse effect on the results of operations for the period in which such matter is resolved, or an accrual is determined to be required, on the financial statement financial position, or on our reputation.

The Company evaluates the need for accruals of loss contingencies for each matter. When a liability for a matter is probable and can be estimated, the Company accrues an estimate of the loss and any related insurance recoveries, if any. An accrual is subject to subsequent adjustment as a result of additional information and other developments. The resolution of matters are inherently difficult to predict, especially in the early stages of matter. Even if a loss is probable, due to many complex factors, such as speed of discovery and the timing of court decisions or rulings, a loss or range of loss may not be reasonably estimated until the later stages of the matter. For matters where a loss is material and it is either probable or reasonably possible then it is disclosed. For matters where a loss may be reasonably possible, but not probable, or is probable but not reasonably estimated, no accrual is established, but the matter, if material, is disclosed.

#### Note 15 - Leases - No change

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

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

- Transfers of receivables reported as sales No change
- Transfer and servicing of financial assets- No change
  - (1) The Company did not have any servicing assets or liabilities in 2023 or 2022.
  - (2) No change
  - (3) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2023 or 2022.
  - (4-6) No change
- Wash sales:
  - (1) In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days to enhance the Company's yield on its investment portfolio.
  - (2) The Company did not sell any securities with the NAIC Designation 3 or below, or unrated, through the three months ended March 31,2023 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 change

#### Note 19 - Direct Premium Written/Produced by Managing General Agents/Third Party Administrators - No change

- Note 20 Fair Value Measurements

  a. Fair value is defined as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The authoritative guidance around fair value establishes a measurement framework that includes a hierarchy used to classify the inputs used in measuring fair value. The hierarchy prioritizes the inputs to valuation techniques into three levels. Each level reflects a unique description of the inputs that are significant to the fair value measurements. The levels of the fair value hierarchy are as follows:
  - Level 1 Observable inputs in the form of quoted prices for identical instruments in active markets.
  - Level 2 Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active or other inputs that are observable or can be derived from observable market data for substantially the full term of the assets or liabilities.
  - Level 3 One or more unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using internal models, as well as instruments for which the determination of fair value requires significant management judgment or estimation.

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

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

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

the prices received from the pricing vendors are representative of prices that would be received to sell the assets at the applicable measurement date (exit prices) and are classified appropriately in the hierarchy.

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

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

			March 31, 2023	3	
				Net Asset Value	е
	Level 1	Level 2	Level 3	(NAV)	Total
Financial assets:					
Common stock - unaffiliated	21,795	-	-	-	21,795
Separate account assets(1)	1,050,510,067	2,331,487,630	-	-	3,381,997,697
Total financial assets carried					_
at fair value	\$ 1,050,531,862	\$ 2,331,487,630	\$ -	\$ -	\$ 3,382,019,492

(1)\$1,218,491,602 of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

For the period ended March 31, 2023, there were no significant transfers between Level 1 and Level 2 and the Company does not have any financial instruments that are carried at NAV as a practical expedient.

	-		December 31, 20	22	
				Net Asset Value	е
	Level 1	Level 2	Level 3	(NAV)	Total
Financial assets:					
Common stock - unaffiliated	22,653	-	-	-	22,653
Separate account assets <sup>(1)</sup>	1,014,094,845	2,339,975,961	-	-	3,354,070,806
Total financial assets carried at fair value	\$ 1,014,117,498	\$ 2,339,975,961	\$ -	\$ -	\$ 3,354,093,459

(¹)\$1,215,813,007 of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

- (2) The Company does not have any level 3 financial instruments that are carried at fair value and, therefore, are not included in this table
- (3) The Company reviews the fair value hierarchy classifications at each reporting period. Overall, reclassifications between levels occur when there are changes in the observability of inputs and market activity used in the valuation of a financial asset or liability. Such reclassifications are reported as transfers between levels at the beginning fair value for the reporting period in which the changes occur. Given the types of assets classified as Level 1 (primarily equity securities and mutual fund investments), transfers between Level 1 and Level 2 measurement categories are expected to be infrequent. Transfers into and out of Level 3 are summarized in the schedule of changes in Level 3 assets and liabilities.
- (4) Valuation Techniques and Inputs

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

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

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

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

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

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

- (5) Derivative assets and liabilities fair value disclosures on a gross basis are included in paragraph 1 above. Since there are no derivative assets or liabilities classified in Level 3, the reconciliation disclosures required under paragraphs 2 through 4 are
- The Company provides additional fair value information in Note 21 Other Items.
- The following presents a summary of the carrying values and fair values of the Company's financial instruments:

					March 3	1, 2	023						
	_	Aggregate Fair Value		Admitted Assets	Level 1		Level 2		Level 3	A V	Net sset alue IAV)	Not Practicable (Carrying Value)	
Financial assets:  Bonds: U. S. government and agencies Special revenue Industrial and miscellaneous Parent, subsidiaries and affiliates Common stock - unaffiliated Mortgage loans - residential Cash, cash equivalents and short-term investments Separate account assets Financial liabilities: Individual annuity contracts Supplementary contracts	9	4,388,759 23,958 193,096,986 890,721 21,795 1,397,465 110,792,475 4,524,439,875 2,594,258 11,779,947	\$	4,340,144 23,158 206,433,793 993,998 21,795 1,516,191 110,792,475 4,600,489,299 2,494,670 11,663,314	\$ 21,795 - 2578,803 1,050,510,067	\$	4,388,759 23,958 193,096,986 890,721 - 108,213,672 3,466,952,447	\$	- - 1,397,465 - 6,977,361 2,594,258 11,779,947	\$	-	\$ - - - - - - - -	
					Decembe	er 3	1, 2022						
											Net	Not	_
										A	Asset	Practicable	е
		Aggregate Fair Value		Admitted Assets	Level 1		Level 2		Level 3		/alue NAV)	(Carrying Value)	ı
Financial assets: Bonds: U. S. government and									-		,		
agencies Special revenue Industrial and miscellaneous Parent, subsidiaries and affiliates	\$	4,400,260 \$ 24,839 192,480,670 844,537	5	4,445,691 24,132 207,449,114 993,621	\$ -	\$	4,400,260 \$ 24,839 192,437,800 844,537	6	- - 42,871 -	\$		- \$ - -	- - -
Common stock - unaffiliated Mortgage loans - residential Cash, cash equivalents and short-term investments		22,653 1,431,279 111,900,743		22,653 1,657,058 111,900,743	22,653 - 1,676,711		- - 110,224,032		1,431,279			-	-
Separate account assets Financial liabilities:		4,473,532,344		4,569,883,813	1,014,094,845	;	3,452,380,995		7,056,505			-	-

d. As of March 31, 2023 and December 31, 2022, the Company had no investments where it was not practicable to estimate fair value.

2,914,830

2,802,721

11,818,477

Note 21 - Other Items

a. Unusual or infrequent items - No change

2,914,830

11,936,662

- Troubled debt restructuring No change
- Other disclosures and unusual items:

#### Business risks

Individual annuity contracts Supplementary contracts

The Company operates in a business environment subject to various risks and uncertainties. The principal risks include insurance and underwriting risks, investment and interest rate risks and credit risk. The combined impact of these risks could have a material, adverse effect on the Company's financial statements or result in operating losses in future periods. The Company employs the use of reinsurance, portfolio diversification, asset/liability management processes and other risk management techniques to mitigate the impact of these risks. This condensed risks and uncertainties disclosure should be read in conjunction with the disclosure in the Company's 2022 Annual Statement.

Insurance and underwriting risks

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

#### Investment and interest rate risks

The fair value, cash flows and earnings of investments can be influenced by a variety of factors including changes in interest rates, credit spreads, equity markets, portfolio asset allocation and general economic conditions. The Company employs a rigorous asset/liability management process to help mitigate the economic impacts of various investment risks, in particular interest rate risk. By effectively matching the market sensitivity of assets with the liabilities they support, the impact of interest rate changes is addressed, on an economic basis, as the change in the value of the asset is offset by a corresponding change in the value of the supported liability.

The levels of U.S. interest rates are influenced by U.S. monetary policies and by the relative attractiveness of U.S. markets to investors versus other global markets. As interest rates increase, certain debt securities may experience amortization or prepayment speeds that are slower than those assumed at purchase, impacting the expected maturity of these securities and the ability to reinvest the proceeds at the higher yields. Rising interest rates may also result in a decrease in the fair value of the investment portfolio. As interest rates decline, certain debt securities may experience accelerated amortization and prepayment speeds than what was assumed at purchase. During such periods, the Company is at risk of lower net investment income as it may not be able to reinvest the proceeds at comparable yields. Declining interest rates may also increase the fair value of the investment portfolio.

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

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

#### Credit and other market risks

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

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

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

The spread of the coronavirus had caused increased cases of COVID-19 and significant volatility in U.S. and international markets. There is significant uncertainty around the breadth and duration of business disruptions related to COVID-19, as well as its impact on the U.S. and international economies. At this time, the Company is not able to reliably estimate the length and severity of the COVID-19 public health crises and, as such, cannot quantify its impact on the financial results, liquidity and capital resources and its operations in future periods.

#### Political Uncertainties

Political events, domestically or internationally, may directly or indirectly trigger or exacerbate risks related to product offerings, profitability, or any of the risk factors described above. Whether those underlying risk factors are driven by geopolitics or not, the Company's dynamic approach to managing risks enables management to identify risks, internally and externally, develop mitigation plans, and respond to risks in an attempt to proactively reduce the potential impact of each underlying risk factor on the Company.

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

Residential mortgage-backed securities risk exposure:

_		March 31, 2023	i	Three Months Ended March 31, 2023
	Actual	Carrying	Fair	
Alt-A:	Cost	Value	Value	OTTI
a. Residential mortgage-backed securities	292,494	\$ 367,539	\$ 381,667	- \$
b. Commercial mortgage-backed securities	-	-	-	-
c. Collateralized debt obligations	-	-	-	<del>-</del>
d. Structured securities	-	-	-	-
e. Equity investments in SCA	-	-	-	· -
f. Other assets	-	-	-	-
g. Total	292,494	\$ 367,539	\$ 381,667	- \$

						Υ	ear Ended	
		Dece	ember 31, 202	2		Dece	mber 31, 2022	
	Actual		Carrying		Fair			
Alt-A:	Cost		Value		Value		OTTI	
a. Residential mortgage-backed securities \$	304,996	\$	380,163	\$	397,615	\$		-
b. Commercial mortgage-backed securities	-		-					-
<ul> <li>Collateralized debt obligations</li> </ul>	-		-		-			-
d. Structured securities	-		-		-			-
e. Equity investments in SCA	-		-		-			-
f. Other assets	-		-		-			_
g. Total \$	304,996	\$	380,163	\$	397,615	\$		-

- (4) The Company has no underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty insurance coverage.
- g. Retained asset accounts No change

#### Note 22 - Events Subsequent

Management of the Company has evaluated subsequent events through May 12, 2023, the date the financial statements were available to be issued to state regulators and subsequently on the Company's website. No events have occurred subsequent to the date of the financial statements.

Note 23 - Reinsurance - No change

#### Note 24 - Retrospectively Rated Contracts and Contracts Subject to Redetermination

- a d. No change
- The Company does not write any accident and health insurance premium that is subject to the Affordable Care Act risk-sharing e.

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

There was no increase to reserves in 2023 for incurred losses and loss adjustment expenses attributable to insured events of prior years, which considered corrections of prior year errors.

- Note 26 Intercompany Pooling Arrangements No change
- Note 27 Structured Settlements No change
- Note 28 Health Care Receivables No change
- Note 29 Participating Policies No change
- Note 30 Premium Deficiency Reserves No change
- Note 31 Reserves for Life Contracts and Annuity Contracts No change
- Note 32 Analysis of Annuity Actuarial Reserves and Deposit Type Liabilities by Withdrawal Characteristics No change
- Note 33 Analysis of Life Actuarial Reserves by Withdrawal Characteristics No change
- Note 34 Premium and Annuity Considerations Deferred and Uncollected No change
- Note 35 Separate Accounts No change
- Note 36 Loss/Claim Adjustment Expenses No change

## **GENERAL INTERROGATORIES**

## PART 1 - COMMON INTERROGATORIES

### **GENERAL**

1.1	Did the reporting entity experience any material transactions requirin 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:							
3.1	Is the reporting entity a member of an Insurance Holding Company S is an insurer?	,		•			[ X ]	No [ ]
3.2	Have there been any substantial changes in the organizational chart	since the prior qu	uarter end?			. Yes	[ ]	No [ X ]
3.3	If the response to 3.2 is yes, provide a brief description of those char							
3.4	Is the reporting entity publicly traded or a member of a publicly traded	d group?				. Yes	[ ]	No [ X ]
3.5	If the response to 3.4 is yes, provide the CIK (Central Index Key) coo	de issued by the S	SEC for the entity/group.					
4.1	Has the reporting entity been a party to a merger or consolidation du	iring the period co	vered by this statement	?		Yes	[ ]	No [ X ]
4.2	If yes, provide the name of the entity, NAIC Company Code, and stat ceased to exist as a result of the merger or consolidation.	te of domicile (use	e two letter state abbrev	riation) for any entity t	hat has			
	1 Name of Entity		2 NAIC Company Code	3 State of Domicile				
5.	If the reporting entity is subject to a management agreement, includi in-fact, or similar agreement, have there been any significant change If yes, attach an explanation.	es regarding the to	erms of the agreement of	or principals involved	? Yes		lo [ X	] N/A [ ]
6.1	State as of what date the latest financial examination of the reporting	g entity was made	or is being made				12/31/	′2019
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 or						12/31/	/2019
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).	e examination rep	ort and not the date of t	he examination (bala	nce sheet		06/16/	/2021
6.4	By what department or departments? State of Connecticut Insurance Department							
	Have all financial statement adjustments within the latest financial ex							
6.5	statement filed with Departments?	xamination report		subsequent financia		s [ ] 1	lo [	] N/A [ X ]
6.5					Yes		•	
	statement filed with Departments?	tion report been or	omplied with?	ation, if applicable) su	Yes Yes uspended o	: [ X ] N	No [	
6.6	Have all of the recommendations within the latest financial examinat  Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:	r registrations (inc	omplied with?	ation, if applicable) su	Yes	s [X] M or Yes	No [	] N/A [ ]
6.6 7.1	Have all of the recommendations within the latest financial examinat  Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	r registrations (inc	omplied with?	ation, if applicable) su	YesYes	s [X] Mor or Yes	l ]	] N/A [ ]
6.6 7.1 7.2	Have all of the recommendations within the latest financial examinat  Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding	tion report been or registrations (inc	omplied with?	ation, if applicable) su	Yes	or Yes	l ]	] N/A [ ]
6.6 7.1 7.2 8.1	Have all of the recommendations within the latest financial examinat  Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:	r registrations (inc	omplied with?	ation, if applicable) su	yes	s [ X ] Nor Yes Yes	o	] N/A [ ]
6.6 7.1 7.2 8.1 8.2	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding	y the Federal Res g company. firms?	omplied with?eluding corporate registrationerve Board?erve Board?erve Board? of the main office) of an omptroller of the Curren	ation, if applicable) su	uspended o	E [X] Nor Yes	o	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat  Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by  If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities  If response to 8.3 is yes, please provide below the names and location regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis	y the Federal Res g company. on (city and state ne Office of the Cosion (SEC)] and i	omplied with? eluding corporate registrate erve Board?  of the main office) of an omptroller of the Curren dentify the affiliate's pring	ation, if applicable) survive affiliates regulated cy (OCC), the Federa nary federal regulator	by a federal Deposit	FIX THE SECOND S	lo [ ] [ ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinate. Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	y the Federal Res g company. on (city and state ne Office of the Cresion (SEC)] and i	omplied with? cluding corporate registrates. erve Board?  of the main office) of an omptroller of the Curren dentify the affiliate's print a continuous	ation, if applicable) summer application applicable and the second secon	by a federal Deposit	: [ X ]	lo [ ] [ ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Bar ings LLC  Bar ing LLC  Bar ing International Investment Limited	y the Federal Res g company. on (city and state ne Office of the Cosion (SEC)] and i	omplied with?  cluding corporate registrates  erve Board?  of the main office) of an omptroller of the Curren dentify the affiliate's print a continuous	ation, if applicable) survive affiliates regulated cy (OCC), the Federa nary federal regulator	by a federal Deposit	5 (X ) Nor Yes Yes Yes Yes Yes Yes	lo [ ] [ ] [ X ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Barings LLC  Baring International Investment Limited  Barings Securities LLC  Barings Securities LLC	y the Federal Res g company.  on (city and state ne Office of the Cosion (SEC)] and i	omplied with? cluding corporate registrates.  erve Board?  of the main office) of an omptroller of the Curren dentify the affiliate's print 2 ocation (City, State)	ation, if applicable) survey affiliates regulated cy (OCC), the Federa nary federal regulator	by a federal Deposit	5 (X ) Nor Yes Yes Yes Yes Yes Yes Yes Yes	lo [ ] [ X ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities  If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Bar ings LLC  Bar ing International Investment Limited  Bar ings Securities LLC  MML Distributors, LLC  MML Distributors, LLC	y the Federal Res g company.  ifirms?  on (city and state ne Office of the Co sion (SEC)] and i	omplied with? eluding corporate registrates registrates reverse and compared to the main office) of an omptroller of the Curren dentify the affiliate's print and continuous continu	ation, if applicable) survive affiliates regulated cy (OCC), the Federa nary federal regulator	by a federall Deposit	5 (X ) Nor Yes Yes Yes Yes Yes Yes Yes Ye Ye Ye	No	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities  If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Bar ings LLC  Bar ing International Investment Limited  Bar ings Securities LLC  MML Distributors, LLC  MML Investment Advisers, LLC  MML Investment Advisers, LLC	y the Federal Res g company.  on (city and state ne Office of the Cosion (SEC)] and i	omplied with?  cluding corporate registrate regi	ation, if applicable) survive and survive applicable of survive and survive an	by a federal Deposit  4 OCC F	5 (X ) Nor Yes Yes Yes Yes Yes Yes Yes Ye	lo [ ] [ ] [ X ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities  If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Bar ings LLC  Bar ing International Investment Limited  Bar ings Securities LLC  MML Distributors, LLC  MML Distributors, LLC	y the Federal Res g company.  on (city and state ne Office of the Country and its company)  Charlotte, NC  Charlotte, NC  Springfield, M/	omplied with?	ation, if applicable) survive affiliates regulated cy (OCC), the Federa nary federal regulator	by a federal Deposit  4 OCC F	5 (X ) Nor Yes	lo [ ] [ X ] [ X ] [ X ]	] N/A [ ] No [ X ] No [ X ]
6.6 7.1 7.2 8.1 8.2 8.3	Have all of the recommendations within the latest financial examinat Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?  If yes, give full information:  Is the company a subsidiary of a bank holding company regulated by If response to 8.1 is yes, please identify the name of the bank holding.  Is the company affiliated with one or more banks, thrifts or securities  If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commis  Affiliate Name  Bar ings LLC  Bar ings Securities LLC  MML Distributors, LLC  MML Investment Advisers, LLC  MML Investment Advisers, LLC  MML Investors Services, LLC	y the Federal Res g company.  on (city and state ne Office of the Crision (SEC)] and i	omplied with?	ation, if applicable) survive and applicable and applicable and applicable are survive and applicable and applicable are survive are survive and applicable are survive are survive and applicable are survive are survive are survive and applicable are survive	by a federal Deposit  OCC F	5 (X ) Nor Yes	lo [ ] [ X ] [ X ] [ X ]	] N/A [ ] No [ X ] No [ X ]

# **GENERAL INTERROGATORIES**

9.1	Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, similar functions) of the reporting entity subject to a code of ethics, which includes the following standards?		Yes [ X ] No [ ]
	(b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporti	ng entity;	
	(c) Compliance with applicable governmental laws, rules and regulations;		
	(d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and		
	(e) Accountability for adherence to the code.		
9.11	If the response to 9.1 is No, please explain:		
0.0	Has the end of other for an income have been accorded?		V [ V 1 N- [ 1
9.2 9.21	Has the code of ethics for senior managers been amended?		Yes [ X ] No [ ]
9.21	If the response to 9.2 is Yes, provide information related to amendment(s).  Code has been updated to reflect policy name changes and removed policy links from the document		
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	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement?		
10.2	If yes, indicate any amounts receivable from parent included in the Page 2 amount:	\$	
	INVESTMENT		
11.1	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or oth	erwise made available for	
11.2	use by another person? (Exclude securities under securities lending agreements.)		Yes [ ] No [ X ]
12.	Amount of real estate and mortgages held in other invested assets in Schedule BA:	\$	
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 Prior Year-End Book/Adjusted	2 Current Quarter Book/Adjusted
4 21	Bonds	Carrying Value	Carrying Value \$993,998
	Preferred Stock		\$
	Common Stock		\$
	Short-Term Investments		\$
	Mortgage Loans on Real Estate		\$
	All Other		\$
	Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26)		\$993,998
	Total Investment in Parent included in Lines 14.21 to 14.26 above		\$
15.1	Has the reporting entity entered into any hedging transactions reported on Schedule DB?		Yes [ ] No [ X ]
15.2	If yes, has a comprehensive description of the hedging program been made available to the domiciliary state?  If no, attach a description with this statement.	Yes	
16.	For the reporting entity's security lending program, state the amount of the following as of the current statement date		
	16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2		\$
	16.2 Total book/adjusted carrying value of reinvested collateral assets reported on Schedule DL, Paris Faint 2		
	16.3 Total payable for securities lending reported on the liability page		Ψ

# **GENERAL INTERROGATORIES**

offices, vaults or sa custodial agreemen Outsourcing of Crit	fety deposit boxes, v t with a qualified bar cal Functions, Custo	Special Deposits, real estate, movere all stocks, bonds and other stake or trust company in accordant dial or Safekeeping Agreements requirements of the NAIC Finance	securities, owner ce with Section of the NAIC Fir	d throughout the cu 1, III - General Exa nancial Condition E	urrent year held pursu mination Consideratio xaminers Handbook?	ant to a ons, F.	Yes [	X ] No [
	1	(a.12-a.7-)		0 11	2			
Citibank, N.A	Name of Cust	odian(s)	333 West 34t		odian Address , NY 10001			
2 For all agreements location and a com		vith the requirements of the NAIC	Financial Cond	lition Examiners Ha	andbook, provide the	name,		
	1 ne(s)	2 Location(s)		Comp	3 blete Explanation(s)			
	y changes, including	g name changes, in the custodianto:	n(s) identified in	17.1 during the cur	rent quarter?		Yes [	] No [ X
	1 stodian	2 New Custodian	Date	3 of Change	4 Reaso	n		
make investment of	ecisions on behalf of access to the inves	evestment advisors, investment r the reporting entity. For assets t tment accounts"; "handle secu	that are manage urities"]	d internally by emp				
•		n or Individual		tion				
17.5097 For those	irms/individuals liste	d in the table for Question 17.5, more than 10% of the reporting	do any firms/ind				Yes [	] No [ X
17.5098 For firms/i	ndividuals unaffiliate	d with the reporting entity (i.e. de	esignated with a	"U") listed in the tal	ole for Question 17.5,	does the		] No [ )
	J	e table for 17.5 with an affiliation		•				
1		2		3		4		5 nvestment
Central Registration	er	Name of Firm or Individual		Legal Entity Ident	ifier (LEI) Re	gistered With	,	anagement Agreement IMA) Filed
		urposes and Procedures Manual						
If no, list exception								
a. Documental security is n     b. Issuer or ob     c. The insurer	on necessary to per ot available. igor is current on all nas an actual expect	eporting entity is certifying the fol mit a full credit analysis of the se contracted interest and principal ation of ultimate payment of all c 5GI securities?	payments.	exist or an NAIC CF	RP credit rating for an		Yes [	] No [ X
a. The security     b. The reporting     c. The NAIC De     on a current     d. The reporting	was purchased prior entity is holding cap signation was derive private letter rating he entity is not permitte	reporting entity is certifying the f to January 1, 2018. iital commensurate with the NAIG of from the credit rating assigned eld by the insurer and available fed to share this credit rating of th PLGI securities?	C Designation red by an NAIC CF for examination I be PL security wi	eported for the secu RP in its legal capac by state insurance in th the SVO.	rity. city as a NRSRO whic regulators.	ch is shown	Yes [	] No [ ]
By assigning FE to FE fund: a. The shares who be the reporting control of the security and any 1, 20	a Schedule BA non- ere purchased prior entity is holding cap and a public credit ra 119.	registered private fund, the report to January 1, 2019. iital commensurate with the NAIG ting(s) with annual surveillance a	rting entity is cer	tifying the following	elements of each se	lf-designated	.03 [	, no [ /
d. The fund onl e. The current i in its legal ca	or predominantly ho							

# **GENERAL INTERROGATORIES**

## PART 2 - LIFE AND ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES

Life and	Accident Health Companies/Fraternal Benefit Societies:  Report the statement value of mortgage loans at the end of this reporting period for the following categories:		1 Amo	l ount
	1.1 Long-Term Mortgages In Good Standing		AIII	Juni
	1.11 Farm Mortgages	.\$		
	1.12 Residential Mortgages	\$		1,516,191
	1.13 Commercial Mortgages	.\$		
	1.14 Total Mortgages in Good Standing	\$		1,516,191
	1.2 Long-Term Mortgages In Good Standing with Restructured Terms			
	1.21 Total Mortgages in Good Standing with Restructured Terms	.\$		
	1.3 Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months			
	1.31 Farm Mortgages	.\$		
	1.32 Residential Mortgages	\$		
	1.33 Commercial Mortgages	.\$		
	1.34 Total Mortgages with Interest Overdue more than Three Months	.\$		
	1.4 Long-Term Mortgage Loans in Process of Foreclosure			
	1.41 Farm Mortgages	.\$		
	1.42 Residential Mortgages	\$		
	1.43 Commercial Mortgages	.\$		
	1.44 Total Mortgages in Process of Foreclosure	\$		
1.5	Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)	.\$		1,516,191
1.6	Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter			
	1.61 Farm Mortgages	.\$		
	1.62 Residential Mortgages	\$		
	1.63 Commercial Mortgages	.\$		
	1.64 Total Mortgages Foreclosed and Transferred to Real Estate	.\$		
2.	Operating Percentages:			
	2.1 A&H loss percent			9
	2.2 A&H cost containment percent			9
	2.3 A&H expense percent excluding cost containment expenses			9
3.1	Do you act as a custodian for health savings accounts?		Yes [ ]	No [ X ]
3.2	If yes, please provide the amount of custodial funds held as of the reporting date	.\$		
3.3	Do you act as an administrator for health savings accounts?		Yes [ ]	No [ X ]
3.4	If yes, please provide the balance of the funds administered as of the reporting date	\$		
4.	Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states?		Yes [ X ]	No [ ]
4.1	If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity?		Yes [ ]	No [ ]
Fratern	al Benefit Societies Only:		1	
5.1	In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done?	Yes	[ ] No [	] N/A [ ]
5.2	If no, explain:			
6.1	Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus?		Yes [ ]	No [ ]
6.2	If yes, what is the date(s) of the original lien and the total outstanding balance of liens that remain in surplus?			

Date	Outstanding Lien Amount

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

			<u>20</u> 0	wing All New Reinsura	nce Treaties - Current Year to Date			
1	2	3	4		7	8	9	10
								Effective
							Certified	Date of
NAIC					Type of Type of		Reinsurer	Certified
Company	ID	Effective			D icilia Rein ance Business		Rating	Reinsurer
Code	Number	Date	Name of Reinsurer		Julia diction C Ceded	Type of Reinsurer	(1 through 6)	Rating

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

Current Year To Date - Allocated by States and Territories

Considerations and Other First   Considerations and Other First   Considerations   Consid			Cu	rrent Year	To Date - Allocated by States and Territories									
Architect				1	Life Co	ntracte	Direct Bus		6	7				
States, Etc.				'				3		,				
Adams					-		Health Insurance							
Considerations   Cons				Active			Premiums,		Total					
States, Etc.					Life Insurance	Annuity	Membership	Other	Columns	Deposit-Type				
2 Alashan				(a)	Premiums	Considerations	and Other Fees	Considerations	2 Through 5	Contracts				
3. Arbone					- ,				- /					
A American					, -				, -					
S. California				L	, -				, -					
6. Comman				L										
7. Corrections			_	L										
8 Dieserd Clourbis DC L 17, 256 117, 25				L										
S				L										
10   Florids	-			L	,									
11   Garogile   CA   L   903 30   933   93, 85   103, 30   103,	-			L						•••••				
12   Haves				L	- ,				,					
13   Marke   D   L   91   169   169   169   169   169   161   16		o a constant of the constant o	-	L										
14   Mircels				L										
15   Indiana				I						•••••				
16   10 ws				I					.,	•••••				
17   Kamas				l	, -	450			, -					
18   Kembudy   KY				l										
19				l	. ,				. ,					
20   Mary March   Mile				L										
22   Maryand   MO	-			L										
23 Michigan   Mil   181,999   181,999   181,999   24 Minesolth   MN   1, 17,772   67,774   67,774   67,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,985				L										
23 Michigan   Mil   181,999   181,999   181,999   24 Minesolth   MN   1, 17,772   67,774   67,774   67,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,774   74,765   75,985				L										
25 Mississippi	l l			L										
Miscouri				L										
27   Montane   MT				L	, -									
20   Nevrada   NE	26.	Missouri	иO	L	,				95,856					
20   Newfarnpehire   NH   L   43,137     43,137     42,105	l l			L					,					
30 New Hampshire   NH	l l			L		450								
31 New Jensey														
32 New Moxico		·												
33   New York	l l	*	-		,									
34 North Carolina	l l													
35   North Dakota		The state of the s		N					- /					
36	l l		-	L					. ,					
37				L	, -				, -					
38				L										
39				L						•••••				
40   Rhode Island	l l	S .		L										
41   South Carolina   SC				L					, .					
42   South Dakota   S.D				L										
43   Tennessee				L										
44.   Texas	l l			l	,					•••••				
46									,					
46.   Vermont				l	. ,				. ,					
47   Virginia	l l			l		300								
48. Washington					,									
49														
S0, Wisconsin   Wi		•												
S1	l l	ě .							,					
53. Guam	51.	Wyoming\	NY		4,242				4,242					
S4   Puerto Rico	52.	American Samoa	AS	N										
55. U.S. Virgin Islands	53.	Guam (	GU	N										
56. Northern Mariana Islands	54.	Puerto Rico F	PR	N										
56. Northern Mariana Islands	l l		/I											
58. Aggregate Other Aliens														
59. Subtotal														
90. Reporting entity contributions for employee benefits plans.   XXX	l l													
plans	l l			XXX	6,729,033	1,200			6,730,233					
91.   Dividends or refunds applied to purchase paid-up additions and annuities	90.													
additions and annuities		·		XXX										
92.   Dividends or refunds applied to shorten endowment or premium paying period.	91.			YYY										
or premium paying period.  93. Premium or annuity considerations waived under disability or other contract provisions.  94. Aggregate or other amounts not allocable by State	92			^^^	• • • • • • • • • • • • • • • • • • • •									
93.   Premium or annuity considerations waived under disability or other contract provisions.   XXX   79,905	JZ.			XXX										
disability or other contract provisions.   XXX.   79,905	93.	Premium or annuity considerations waived und	er											
94. Aggregate or other amounts not allocable by State.       XXX.       6,808,938       1,200       6,810,138         95. Totals (Direct Business).       XXX.       6,808,938       1,200       6,810,138         97. Totals (All Business).       XXX.       6,808,938       1,200       6,810,138         98. Less Reinsurance Ceded.       XXX.       5,561,609       5,561,609         99. Totals (All Business) less Reinsurance Ceded       XXX       1,247,330       1,200       1,248,530         DETAILS OF WRITE-INS       XXX       13,022       13,022         58001. Aggregate 0ther Allien       XXX.       13,022       13,022         58003.       XXX       58998. Summary of remaining write-ins for Line 58 from overflow page       XXX       13,022         58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)       XXX       13,022       13,022         9401.       XXX       13,022       13,022         9403.       YXX       13,022		disability or other contract provisions		XXX	79,905				79,905					
96. Plus Reinsurance Assumed		Aggregate or other amounts not allocable by S	tate	XXX										
97         Totals (All Business)						1,200			6,810,138					
98. Less Reinsurance Ceded         XXX         .5,561,609         .5,561,609           99. Totals (All Business) less Reinsurance Ceded         XXX         1,247,330         1,200         1,248,530           DETAILS OF WRITE-INS														
99. Totals (All Business) less Reinsurance Ceded         XXX         1,247,330         1,200         1,248,530           DETAILS OF WRITE-INS         58001. Aggregate 0ther Allien         XXX         13,022         13,022           58002.         XXX         58003.         XXX         58998. Summary of remaining write-ins for Line 58 from overflow page         XXX         58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)         XXX         13,022         13,022           9401.         XXX         3402         XXX         14,000         14,000         14,000         14,000         14,000         14,000         15,000 <td></td> <td></td> <td></td> <td></td> <td></td> <td>, , , , , , , , , , , , , , , , , , ,</td> <td></td> <td></td> <td></td> <td></td>						, , , , , , , , , , , , , , , , , , ,								
DETAILS OF WRITE-INS	l l													
58001. Aggregate 0ther Alien       XXX       13,022         58002.       XXX         58003.       XXX         58998. Summary of remaining write-ins for Line 58 from overflow page       XXX         58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)       XXX         9401.       XXX         9402.       XXX         9403.       XXX         9498. Summary of remaining write-ins for Line 94 from				XXX	1,247,330	1,200			1,248,530					
58002.       XXX         58003.       XXX         58998.       Summary of remaining write-ins for Line 58 from overflow page       XXX         58999.       Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)       XXX         9401.       XXX         9402.       XXX         9403.       XXX         9498.       Summary of remaining write-ins for Line 94 from				1001	40.000				10.000					
58003.       XXX         58998.       Summary of remaining write-ins for Line 58 from overflow page       XXX         58999.       Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)       XXX       13,022         9401.       XXX       13,022         9402.       XXX       13,022         9403.       XXX       13,022         9498.       Summary of remaining write-ins for Line 94 from       XXX									,					
58998. Summary of remaining write-ins for Line 58 from overflow page       .XXX.         58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)       .XXX       13,022         9401.       .XXX.       .XXX.         9402.       .XXX.       .XXX.         9403.       .XXX.       .XXX.         9498. Summary of remaining write-ins for Line 94 from       .XXX.	l l						l							
overflow page         XXX           58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)         XXX           9401.         XXX           9402.         XXX           9403.         XXX           9498. Summary of remaining write-ins for Line 94 from				XXX										
58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)     XXX     13,022       9401.     XXX       9402.     XXX       9403.     XXX       9498. Summary of remaining write-ins for Line 94 from	58998.			YYY										
58998)(Line 58 above) XXX 13,022 13,022  9401	59000			XXX										
9401.	50999.			XXX	13 022				13 022					
9402	9401	7.			- ,				- ,					
9403	l l													
9498. Summary of remaining write-ins for Line 94 from														
	l l													
overflow page				XXX										
9499. Totals (Lines 9401 through 9403 plus 9498)(Line	9499.		ne											
94 above) XXX (a) Active Status Counts:				XXX										

PART 1 – ORGANIZATIONAL CHART

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

	Federal Tax ID	NAIC Co Code	State of Domicile
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	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 Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV, GP, LLC	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands
JFIN Parent LLC	None		Delaware
Jefferies Finance LLC	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
JFIN Fund III LLC	None		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
Jefferies Credit Partners LLC	None	Delaware
APEX Credit Partners LLC	None	Delaware
Jefferies Credit Management LLC	None	Delaware
JCP Direct Lending CLO 2022 LLC	None	Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF	None	Luxembourg
Jefferies Credit Management Holdings LLC	None	Delaware
Senior Credit Investments, LLC	None	Delaware
JDLF GP (Europe) S.a.r.l	None	Luxembourg
JFAM GP LLC	None	Delaware
JFAM GP LP	None	Delaware
Jefferies Direct Lending Fund C LP	None	Delaware
Jefferies DLF C Holdings LLC	None	Delaware
Jefferies Direct Lending Fund C SPE LLC	None	Delaware
JDLF II GP LLC	None	Delaware
JDLF II GP LP	None	Delaware
Jefferies Direct Lending Fund II C LP	None	Delaware
Jefferies DLF II C Holdings LLC	None	Delaware
Jefferies Direct Lending Fund II C SPE LLC	None	Delaware
Jefferies Private Credit BDC Inc.	None	Maryland
Jefferies Senior Lending LLC	None	Delaware
Jefferies Credit Partners BDC Inc	None	Maryland
JFIN Revolver Holdings LLC	None	Delaware
JFIN Revolver Holdings II LLC	None	Delaware
JFIN Revolver Holdings IV LLC	None	Delaware
JFIN Co-Issuer Corporation	None	Delaware
JFIN Europe GP, S.a.r.l.	None	Luxembourg
Jefferies Finance Europe, S.L.P.	None	Luxembourg
Jefferies Finance Europe, SCSp	None	Luxembourg
Jefferies Finance Business Credit LLC	None	Delaware
JFIN Business Credit Fund I LLC	None	Delaware
JFIN Funding 2021 LLC	None	Delaware
JFIN High Yield Investments LLC	None	Delaware
JFIN LC Fund LLC	None	Delaware
JFIN Revolver CLO 2017 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-III Ltd.	None	Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	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.

	Federal Tax ID	NAIC Co Code	State of Domicile
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IN Etd.	None		Cayman Islands
JFIN Revolver Fund, L.P.	None		Delaware
JFIN Revolver Funding 2021 Ltd.	None		Delaware
JFIN Revolver Funding 2021-III Ltd.	None		Delaware
JFIN Revolver Funding 2021-IV Ltd.	None		Delaware
JFIN Revolver Funding 2022-I Ltd.	None		Bermuda
JFIN Revolver SPE1 2022 LLC	None		Delaware
JFIN Revolver SPE3 2022 LLC	None		Delaware
JFIN Revolver SPE4 2022 LLC	None		Delaware
SFL Parkway Funding 2022 LLC	None		Delaware
JCP Private Loan Management GP LLC	None		Delaware
JCP Private Loan Management LP	None		Delaware
Beauty Brands Acquisition Holdings LLC	None		Delaware
Beauty Brands Acquisition LLC  Beauty Brands Acquisition LLC	None		Delaware
Beauty Brands Acquisition Intermediate LLC  Beauty Brands Acquisition Intermediate LLC	None		Delaware
Forma Brands, LLC	None		Delaware
Apex Credit Holdings LLC	None		Delaware
Apex Credit Holdings LLC  JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2012 Etd.  JFIN CLO 2013 Ltd.	None		
JFIN CLO 2013 Ltd. JFIN CLO 2014 Ltd.	None None		Cayman Islands Cayman Islands
			Cayman Islands
JFIN CLO 2014-II Ltd.	None		
JFIN CLO 2015 Ltd.	None		Cayman Islands
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
JFIN CLO 2017 II Ltd.	None		Cayman Islands
Tomorrow Parent, LLC	None		Delaware
Custom Ecology Holdco, LLC	None		Delaware
Glidepath Holdings Inc.	86-2294635	62212	Delaware
MassMutual Ascend Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717	02661	Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
MM Ascend Life Investor Services, LLC	31-1395344		Ohio
MM Ascend Mortgage Lending LLC	31-1395344		Ohio
Manhattan National Holding, LLC	26-3260520	C=000	Ohio
Manhattan National Life Insurance Company	45-0252531	67083	Ohio
MassMutual Mortgage Lending LLC	None		Delaware
MM Copper Hill Road LLC	04-1590850		Delaware
MMV CTF I GP LLC	None		Delaware
MassMutual Ventures Climate Technology Fund I LP	None		Delaware
MM Direct Private Investment Holding LLC	None		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
MM Direct Private Investments UK Limited	None	United Kingdom
DPI-ACRES Capital LLC	None	Delaware
MM Investment Holding	None	Cayman Islands
MMIH Bond Holdings LLC	None	Delaware
MassMutual Asset Finance LLC*	26-0073611	Delaware
MMAF Equipment Finance LLC 2014-A	36-4785301	Delaware
MMAF Equipment Finance LLC 2017-A	35-2590691	Delaware
MMAF Equipment Finance LLC 2017-B	32-0546197	Delaware
MMAF Equipment Finance LLC 2018-A	82-5335801	Delaware
MMAF Equipment Finance LLC 2019-A	83-3722640	Delaware
MMAF Equipment Finance LLC 2019-B	None	Delaware
MMAF Equipment Finance LLC 2020–A	None	Delaware
MMAF Equipment Finance LLC 2020–B	None	Delaware
MMAF Equipment Finance LLC 2021-A	None	Delaware
MMAF Equipment Finance LLC 2022–A	None	Delaware
MMAF Equipment Finance LLC 2022–B	None	Delaware
Rozier LLC	None	Delaware
MML Management Corporation	04-2443240	Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444	Massachusetts
MassMutual Holding MSC, Inc.	04-3341767	Massachusetts
MML CM LLC	None	Delaware
Blueprint Income LLC	None	New York
Flourish Digital Assets LLC	None	Delaware
Flourish Financial LLC	None	Delaware
Flourish Holding Company LLC	None	Delaware
Flourish Insurance Agency LLC	None	Delaware
Flourish Technologies LLC	None	Delaware
MML Distributors LLC*	04-3356880	Massachusetts
MML Investment Advisers, LLC	None	Delaware
MML Strategic Distributors, LLC	46-3238013	Delaware
The MassMutual Trust Company, FSB	06-1563535	Connecticut
MML Private Placement Investment Company I, LLC	04-1590850	Delaware
MML Private Equity Fund Investor LLC	04-1590850	Delaware
MM Private Equity Intercontinental LLC	04-1590850	Delaware
Pioneers Gate LLC	45-2738137	Delaware
MassMutual Holding LLC	04-2854319	Delaware
Fern Street LLC		
Low Carbon Energy Holding	None	United Kingdom
Sleeper Street LLC	None	Delaware
Intermodal Holding II LLC	46-2344300	Delaware
Milestone Acquisition Holding LLC	47-3055009	Delaware
Teaktree Acquisition, LLC	None	Delaware
VGS Acquisition Holding, LLC	None	Delaware
Fern Street LLC Low Carbon Energy Holding Sleeper Street LLC Intermodal Holding II LLC Milestone Acquisition Holding LLC Teaktree Acquisition, LLC	37-1732913 None None 46-2344300 47-3055009 None	Delaware United Kingdom Delaware Delaware Delaware Delaware 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
Haven Life Insurance Agency, LLC	46-2252944	Delaware
Aland Royalty Holdings LP	None	Delaware
GASL Holdings LLC	None	Delaware
Barings Asset-Based Income Fund (US) LP	None	Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017	Delaware
Barings Global Real Assets Fund LP	82-3867745	Delaware
Barings Global Special Situations Credit Fund 3	None	Ireland
Barings North American Private Loan Fund LP	38-4010344	Delaware
MassMutual Assignment Company	06-1597528	North Carolina
MassMutual Capital Partners LLC	04-1590850	Delaware
Marco Hotel LLC	46-4255307	Delaware
HB Naples Golf Owner LLC	45-3623262	Delaware
RB Apartments LLC	82-4411267	Delaware
MassMutual Ventures Holding LLC	None	Delaware
Athens Fund Management LLC	None	Delaware
Crane Venture Partners LLP	None	United Kingdom
MassMutual Ventures Management LLC	None	Delaware
MassMutual Ventures SEA Management Private Limited	None	Singapore
MassMutual Ventures Southeast Asia I LLC	None	Delaware
MassMutual Ventures Southeast Asia II LLC	None	Delaware
MassMutual Ventures Southeast Asia III LLC	None	Delaware
MMV Digital I LLC	None	Cayman Islands
MassMutual Ventures UK LLC	None	Delaware
MassMutual Ventures US I LLC	47-1296410	Delaware
MassMutual Ventures US II LLC	None	Delaware
MassMutual Ventures US III LLC	None	Delaware
MassMutual Ventures US IV LLC	None	Delaware
MM Catalyst Fund LLC	None	Delaware
MM Catalyst Fund II LLC	None	Delaware
MM Rothesay Holdco US LLC	04-1590850	Delaware
Rothesay Limited	None	United Kingdom
Rothesay Mortgages Limited	None	United Kingdom
Rothesay Life Plc	None	United Kingdom
Rothesay MA No.1 Limited	None	United Kingdom
Rothesay MA No.3 Limited	None	United Kingdom
Rothesay MA No.4 Limited	None	United Kingdom
LT Mortgage Finance Limited	None	United Kingdom
Rothesay Property Partnership 1 LLP	None	United Kingdom
Rothesay Foundation	None None	United Kingdom
Rothesay Pensions Management Limited		United Kingdom
Rothesay Asset Management UK Limited	None	United Kingdom
Rothesay Asset Management Australia Pty Ltd	None	Australia
Rothesay Asset Management North America LLC	None	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
MML Investors Services, LLC	04-1590850	Massachusetts
MML Insurance Agency, LLC	04-1590850	Massachusetts
MMLISI Financial Alliances, LLC	41-2011634	Delaware
LifeScore Labs, LLC	47-1466022	Massachusetts
MM Asset Management Holding LLC	45-4000072	Delaware
Barings LLC	51-0504477	Delaware
Baring Asset Management (Asia) Holdings Limited	98-0524271	Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465	Bermuda
Baring Asset Management (Asia) Limited	98-0457463	Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None	Korea
Barings Investment Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707	Taiwan ROC
Barings Singapore Pte. Ltd.	None	Singapore
Barings Japan Limited	98-0236449	Japan
Barings Australia Holding Company Pty Ltd	None	Australia
Barings Australia Pty Ltd	None	Australia
Barings Australia Real Estate Holdings Pty Ltd	None	Australia
Barings Australia Real Estate Pty Ltd	14-0045656	Australia
Altis Property Partners Holdings Pty Ltd	98-0457456	Australia
Altis Asset Management Pty Ltd	None	Australia
Altis Property Partners Pty Ltd	None	Australia
Barings Australia Structured Finance Holdings Pty Ltd	None	Australia
Barings Australia Structured Finance Pty Ltd	None	Australia
Barings Finance LLC	80-0875475	Delaware
BCF Europe Funding Limited	None	Ireland
BCF Senior Funding I LLC	None	Delaware
BCF Senior Funding I Designated Activity Company	None	Ireland
Barings Real Estate Acquisitions LLC	None	Delaware
Barings Securities LLC	04-3238351	Delaware
Barings Guernsey Limited	98-0437588	Guernsey
Barings Europe Limited	None	United Kingdom
Barings Asset Management Spain SL	None	Spain
Baring France SAS	None	France
Baring International Fund Managers (Ireland) Limited	None	Ireland
Barings GmbH	None	Germany
Barings Italy S.r.l.	None	Italy
Barings Sweden AB	None	Sweden
Barings Netherlands B.V.	None	Netherlands
Barings (U.K.) Limited	98-0432153	United Kingdom
Barings Switzerland Sårl	None	Switzerland
Baring Asset Management Limited	98-0241935	United Kingdom
Barings European Direct Lending 1 GP LLP	None	United Kingdom

<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
Baring International Investment Limited	98-0457328	United Kingdom
Baring International Investment Management Holdings	98-0457587	United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576	United Kingdom
Baring Fund Managers Limited	98-0457586	United Kingdom
BCGSS 2 GP LLP	None	United Kingdom
Baring Investment Services Limited	98-0457578	United Kingdom
Barings Core Fund Feeder I GP S.à.r.l.	None	Luxembourg
Barings Investment Fund (LUX) GP S.à r.l.	None	Luxembourg
Barings BME GP S.à.r.l.	None	United Kingdom
Barings GPC GP S.à.r.l.	None	Luxembourg
Barings European Core Property Fund GP Sà.r.l	None	United Kingdom
Barings Umbrella Fund (LUX) GP S.a.r.l.	None	Luxembourg
GPLF4(S) GP S.à r. l	None	Luxembourg
PREIF Holdings Limited Partnership	None	United Kingdom
BMC Holdings DE LLC	None	Delaware
Barings Real Estate Advisers Inc.	04-3238351	Delaware
CRA Aircraft Holding LLC*	81-4258759	Delaware
Chassis Acquisition Holding LLC	81-2244465	Delaware
EIP Holdings I, LLC	None	Delaware
Novation Companies, Inc.	None	Maryland
Red Lake Ventures, LLC	46-5460309	Delaware
Remington L & W Holdings LLC*	81-4065378	Connecticut
Tamiami Citrus, LLC	None	Delaware
Techquity, LP	None	Delaware
Validus Holding Company LLC	46-0687392	Delaware
Aland Royalty GP, LLC	None	Delaware
Alaska Future Fund GP, LLC	None	Delaware
BAI Funds SLP, LLC	None	Delaware
BAI GP, LLC	None	Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None	Delaware
Barings CMS Fund GP, LLC	None	Delaware
Barings Infiniti Fund Management LLC Barings Hotel Opportunity Venture I GP, LLC	None None	Delaware Delaware
Barings Investment Series LLC	None	Delaware
Barings Emerging Generation Fund GP, LLC	None	Delaware
Barings Emerging Generation Fund GP II, LLC	None	Delaware
Barings ERS PE Emerging Manager III GP, LLC	None	Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850	Delaware
Barings CLO Investment Partners GP, LLC	None	Delaware
Barings Core Property Fund GP LLC	None	Delaware
Barings Direct Lending GP Ltd.	None	Cayman Islands
Barings Emerging Generation Fund LP	84-3784245	Delaware
Barings Chotgling Generation Fund Ele Barings Global Energy Infrastructure Advisors, LLC	None	Delaware
Sampe Creat Line, by ministration in the residence of the	1.0110	201111111

<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
	111110 00 0000	SHOW OF POSITION
Barings Centre Street CLO Equity Partnership GP, LLC	None	Delaware
Barings Centre Street CLO Equity Partnership LP	None	Delaware
Barings Global Real Assets Fund GP, LLC	None	Delaware
Barings GPSF LLC	None	Delaware
Barings North American Private Loan Fund Management, LLC	None	Delaware
Barings North American Private Loan Fund II Management, LLC	None	Delaware
Barings North American Private Loan Fund III Management, LLC	None	Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None	Delaware
Barings - MM Revolver Fund GP LLC	None	Delaware
BMT RE Debt Fund GP LLC	None	Delaware
Barings Small Business Fund LLC	84-5063008	Delaware
Benton Street Advisors, Inc.	98-0536233	Cayman Islands
BHOVI Incentive LLC	None	Delaware
BIG Real Estate Fund GP LLC	None	Delaware
BIG Real Estate Incentive I LLC	None	Delaware
BIG Real Estate Incentive II LLC	None	Delaware
BRECS VII GP LLC	None	Delaware
BREDIF GP LLC	None	Delaware
CREF X GP LLC	None	Delaware
Great Lakes III GP, LLC	04-1590850	Delaware
Lake Jackson LLC	None	Delaware
Barings Emerging Markets Blended Fund I GP, LLC	None	Delaware
Mezzco III LLC	41-2280126	Delaware
Mezzco IV LLC	80-0920285	Delaware
Mezzco Australia II LLC	None	Delaware
RECSA-NY GP LLC	None	Delaware
SBNP SIA II LLC	None	Delaware
SBNP SIA III LLC	None	Delaware
Barings CLO 2022-I	98-1624360	Cayman Island
Barings CLO 2022-II	None	Cayman Island
Amherst Long Term Holdings, LLC	None	Delaware
MassMutual International LLC	04-3313782	Delaware
MassMutual Solutions LLC	None	Delaware
Haven Technologies Asia Limited	None	Hong Kong
Yunfeng Financial Group Limited	None	Hong Kong
MassMutual Asia Limited (SPV)	None	Hong Kong
MassMutual External Benefits Group LLC	27-3576835	Delaware
MMV CTF I GP LLC	None	Delaware
MassMutual Ventures Climate Technology Fund I LP	27-3576835	Delaware
Other Affiliates & Funds:	04.1500050	D 1
100 w. 3 <sup>rd</sup> Street LLC	04-1590850	Delaware
300 South Tryon Hotel LLC	82-2432216	Delaware
2160 Grand Manager LLC	04-1590850	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
	Teuciai Tax ID	State of Domittie
300 South Tryon LLC	04-1590850	Delaware
Almack Mezzanine Fund II Unleveraged LP	None	United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	82-3468147	Delaware
Barings Affordable Housing Mortgage Fund II LLC	61-1902329	Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663	Delaware
Barings Emerging Markets Corporate Bond Fund*	None	Ireland
Barings European Real Estate Debt Income Fund	None	Luxembourg
Babson Capital Loan Strategies Fund, L.P.*	37-1506417	Delaware
Barings US High Yield Bond Fund*	None	Ireland
Babson CLO Ltd. 2012-II	None	Cayman Islands
Babson CLO Ltd. 2013-1	None	Cayman Islands
Babson CLO Ltd. 2015-I	None	Cayman Islands
Babson CLO Ltd. 2015-II	None	Cayman Islands
Babson CLO Ltd. 2016-I	None	Cayman Islands
Babson CLO Ltd. 2016-II	None	Cayman Islands
Barings CLO Ltd. 2017-I	None	Cayman Islands
Barings CLO 2018-III	None	Cayman Islands
Barings CLO 2018-IV	None	Cayman Islands
Barings CLO 2019-II	98-1473665	Cayman Islands
Barings CLO 2019-III	None	Cayman Islands
Barings CLO 2019-IV	None	Cayman Islands
Barings CLO 2020-I	None	Cayman Islands
Barings CLO 2020-II	None	Cayman Islands
Barings CLO 2020-III	None	Cayman Islands
Barings CLO 2020-IV	None	Cayman Islands
Barings CLO 2021-I	None	Cayman Islands
Barings CLO 2021-II	None	Cayman Islands
Barings CLO 2021-III	None	Cayman Islands
Babson Euro CLO 2014-I BV	None	Netherlands
Babson Euro CLO 2014-II BV	None	Netherlands
Babson Euro CLO 2015-I BV	None	Netherlands
Barings Euro CLO 2019-I	3603726OH	Ireland
Barings Euro CLO 2019-II	None	Ireland
Barings Euro CLO 2020-I DAC	None	Ireland
Barings Euro CLO 2021-I DAC	3715576VH	Ireland
Barings Euro CLO 2021-II DAC	3750378QH	Ireland
Barings Euro CLO 2021-III DAC	None	Ireland
Barings Euro CLO 2022-I DAC	None	Ireland
Barings Global Em. Markets Equity Fund	82-5330194	North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384	Cayman Islands
Barings Global Special Situations Credit 4 Delaware*	85-1465973	Delaware
Barings Global Special Situations Credit 4 LUX*	98-1570693	Luxembourg
Barings Global Technology Equity Fund	None	Ireland

<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
Barings Europe Select Fund	None	Ireland
Barings Hotel Opportunity Venture	87-0977058	Connecticut
Barings Innovations & Growth Real Estate Fund*	86-3661023	Delaware
Barings Middle Market CLO 2017-I Ltd & LLC	None	Cayman Islands
Barings Middle Market CLO 2017-1 Etd & ELC Barings Middle Market CLO 2018-I	None	Cayman Islands
Barings Middle Market CLO 2010-1 Barings Middle Market CLO 2019-I	None	Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604	Cayman Islands
Barings RE Credit Strategies VII LP	98-1332384	Delaware
Barings Target Yield Infrastructure Debt Fund*	98-1567942	Luxembourg
Barings CLO Investment Partners LP	81-0841854	Delaware
Barings Euro Value Add II (BREEVA II) *	None	Luxembourg
Barings Real Estate European Value Add I SCSp*	None	United Kingdom
Barings Real Estate Debt Income Fund LP*	85-3449260	Delaware
Barings Transportation Fund LP*	87-1262754	Delaware
Braemar Energy Ventures I, L.P.*	None	Delaware
Barings European Core Property Fund SCSp	None	Luxembourg
Barings European Private Loan Fund III A	46-5001122	Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932	New York
Benchmark 2018-B4	None	New York
Benchmark 2018-B8	38-4096530	New York
Barings Core Property Fund LP	20-5578089	Delaware
DPI Acres Capital SPV LLC	04-1590850	Delaware
Gateway Mezzanine Partners II LP*	90-0991195	Delaware
Great Lakes III. L.P.	37-1708623	Delaware
GIA EU Holdings - Emerson JV Sarl	98-1607033	Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-4041012	New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059	New York
Martello Re	None	Bermuda
Miami Douglas Two GP LLC*	04-1590850	Delaware
Miami Douglas Two LP*	04-1590850	Delaware
Miami Douglas Three MM LLC	04-1590850	Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641	Delaware
MM Direct Private Investment Holding	04-1590850	Delaware
MM CM Holding LLC	None	Delaware
MM Debt Participations LLC	81-3000420	Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877	Delaware
Ten Fan Pier Boulevard LLC	35-2553915	Delaware
Tower Square Capital Partners III, L.P.	41-2280127	Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129	Delaware
Trailside MM Member LLC*	04-1590850	Delaware
Washington Gateway Two LLC*	83-1325764	Delaware
Washington Gateway Three LLC*	32-0574045	Delaware
Barings Affiliates & Funds:		

<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
Babson Capital Loan Strategies Master Fund LP	None	Cayman Islands
Barings China Aggregate Bond Private Securities Investment Fund	None	Peoples Republic of China
Barings European Growth Trust Fund	None	United Kingdom
Barings Global High Yield Fund	47-3790192	Massachusetts
CCIC Fund	None	Peoples Republic of China
Great Lakes II LLC*	71-1018134	Delaware
Wood Creek Venture Fund LLC	04-1590850	Delaware
Barings Real Estate Affiliates & Funds:	0.12,000	2 Clarifold
Barings California Mortgage Fund IV	None	California
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None	Luxembourg
Calgary Railway Holding LLC*	82-2285211	Delaware
Combrook PRS Holdings LLC	82-3307907	Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717	California
Cornerstone California Mortgage Fund II LLC	95-4207717	California
Cornerstone California Mortgage Fund III LLC	95-4207717	California
Cornerstone Fort Pierce Development LLC*	56-2630592	Delaware
Cornerstone Permanent Mortgage Fund	45-2632610	Massachusetts
Cornerstone Permanent Mortgage Fund II	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund III	35-2531693	Massachusetts
Cornerstone Permanent Mortgage Fund IV	61-1793735	Massachusetts
CREA/PPC Venture LLC	20-0348173	Delaware
Danville Riverwalk Venture, LLC	82-2783393	Delaware
Euro Real Estate Holdings LLC	04-1590850	Delaware
Fan Pier Development LLC*	20-3347091	Delaware
GIA EU Holdings LLC	04-1590850	Delaware
Landmark Manchester Holdings LLC	81-5360103	Delaware
MMLIC Debt Participations LLC	13-1935920	Delaware
MM Brookhaven Member LLC	04-1590850	Delaware
MM Kannapolis Industrial Member LLC	04-1590850	Delaware
MM East South Crossing Member LLC	04-1590850	Delaware
MM Horizon Savannah Member LLC*	04-1590850	Delaware
MM National Self-Storage Program Member LLC	04-1590850	Delaware
MM 1400 E 4th Street Member LLC	04-1590850	Delaware
One Harbor Shore LLC*	80-0948028	Delaware
PACO France Logistics LLC	04-1590850	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware
Three PW Office Holding LLC	81-5273574	Delaware
Trailside MM Member II LLC	04-1590850	Delaware
Unna, Dortmund Holding LLC	82-3250684	Delaware
Washington Gateway Apartments Venture LLC*	45-5401109	Delaware
West 37th Street Hotel LLC*	88-3861481	Delaware
MassMutual Premier Funds:		
MassMutual Premier Main Street Fund	51-0529328	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.

	Federal Tax ID NAIC Co Code	State of Domicile
MassMutual Premier Strategic Emerging Markets Fund	26-3229251	Massachusetts
MassMutual Select Funds:		
MassMutual Select Fundamental Growth Fund	04-3512593	Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935	Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954	Massachusetts
MassMutual Select Small Company Value Fund	04-3584140	Massachusetts
MassMutual Select T. Rowe Price Retirement 2005 Fund	82-3347422	Massachusetts
MassMutual Select T. Rowe Price Retirement 2010 Fund	82-3355639	Massachusetts
MassMutual Select T. Rowe Price Retirement 2015 Fund	82-3382389	Massachusetts
MassMutual Select T. Rowe Price Retirement 2020 Fund	82-3396442	Massachusetts
MassMutual Select T. Rowe Price Retirement 2025 Fund	82-3417420	Massachusetts
MassMutual Select T. Rowe Price Retirement 2030 Fund	82-3430358	Massachusetts
MassMutual Select T. Rowe Price Retirement 2035 Fund	82-3439837	Massachusetts
MassMutual Select T. Rowe Price Retirement 2040 Fund	82-3451779	Massachusetts
MassMutual Select T. Rowe Price Retirement 2045 Fund	82-3472295	Massachusetts
MassMutual Select T. Rowe Price Retirement 2050 Fund	82-3481715	Massachusetts
MassMutual Select T. Rowe Price Retirement 2055 Fund	82-3502011	Massachusetts
MassMutual Select T. Rowe Price Retirement 2060 Fund	82-3525148	Massachusetts
MassMutual Select T. Rowe Price Retirement Balanced Fund	82-3533944	Massachusetts
MML Series Investment Funds:		
MML Series International Equity Fund	46-4257056	Massachusetts
MML Series Investment Funds II:		
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
MML Series II Equity Rotation Fund	47-3544629	Massachusetts
MassMutual RetireSMART Funds:		
MassMutual RetireSMART 2035 Fund	27-1933380	Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769	Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207	Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235	Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155	Massachusetts
MassMutual 80/20 Allocation Fund	45-1618222	Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464	Massachusetts
MassMutual 40/60 Allocation Fund	45-1618262	Massachusetts
MassMutual 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual ishares 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual Balanced Fund	04-3212054	Massachusetts
MassMutual Blue Chip Growth Fund	04-3556992	Massachusetts
MassMutual Core Bond Fund	04-3277549	Massachusetts
MassMutual Disciplined Growth Fund	04-3539084	Massachusetts
MassMutual Disciplined Value Fund	04-3539083	Massachusetts
MassMutual Diversified Value Fund	01-0821120	Massachusetts
MassMutual Equity Opportunities 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.

	Federal Tax ID NAIC Co Code	State of Domicile
MassMutual Growth Opportunities Fund	04-3512589	Massachusetts
MassMutual Inflation-Protected and Income Fund	03-0532475	Massachusetts
MassMutual Mid Cap Growth Fund	04-3512596	Massachusetts
MassMutual Premier Diversified Bond Fund	04-3464165	Massachusetts
MassMutual RetireSMART by JPMorgan 2065 Fund	92-1441036	Massachusetts
MassMutual Select 80/20 Allocation Fund	45-1618222	Massachusetts
MassMutual Select Fundamental Value Fund	04-3584138	Massachusetts
MassMutual Select Overseas Fund	04-3557000	Massachusetts
MassMutual Select T Rowe Price Retirement 2065 Fund	92-1427882	Massachusetts
MassMutual Small Cap Growth Equity Fund	04-3464205	Massachusetts
MassMutual Small Cap Opportunities Fund	04-3424705	Massachusetts
MassMutual Small Cap Value Equity Fund	02-0769954	Massachusetts
MassMutual Strategic Bond Fund	26-0099965	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**

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

				PA	KI 1/	4 - DETAI	L OF INSURANCE	,E I	HOLL	ING COMPANY	2121 FIM				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-		Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
							Massachusetts Mutual Life Insurance Company			Massachusetts Mutual Life Insurance					
. 0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			(MMLIC)	MA	UIP	Company	Ownership	100.000	MMLIC		
. 0435							MassMutual Ventures Europe/APAC   GP, LLC	DE	NI A	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0435							massmutuai ventures Europe/APAC i GP, LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownersnip	100.000	MWLIC		
. 0435							MassMutual Ventures Europe/APAC   GP, L.P	CYM	NI A	Company	Ownership	100.000	MMLIC		
							The second control of			Massachusetts Mutual Life Insurance					
. 0435							MassMutual Ventures Europe/APAC   L.P	CYM	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company	CT	UDP	Company	Ownership	100.000	MMLIC	.	
. 0435	Massachusetts Mut Life Ins Co	70416	43-0581430				MML Bay State Life Insurance Company	CT	RE	C.M. Life Insurance Company	Ownership	100.000	MMLIC	.	
. 0435	Massachusetts Mut Life Ins Co						CM Life Mortgage Lending LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC	.	
. 0000							CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
0000							0.1.0.1.1.0.1.1.1.1.1.1.1.1.0	DE	NIA	Massachusetts Mutual Life Insurance		400 000	MMLIC		
. 0000							CML Global Capabilities LLC	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000							MM Global Capabilities   LLC	DE	NIA	Company	Ownership	100.000	MML IC		
. 0000							MassMutual Global Business Services India	UL		Company	Owner Sirrp		WWILTO		
. 0000							LLP	IND	NI A	MM Global Capabilities   LLC	Ownership	100.000	MMLIC	.	
. 0000							MM Global Capabilities (Netherlands) B.V	NLD	NI A	MM Global Capabilities   LLC	Ownership	100.000	MMLIC		
							MassMutual Global Business Services Romania			a court capabilities i 220 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii					
. 0000							S.R.L	R0U	NI A	MM Global Capabilities (Netherlands) B.V.	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM Global Capabilities II LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM Global Capabilities III LLC	DE	NI A	Company	Ownership	100.000	MMLIC	.	
. 0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NI A	Company	Ownership	100.000	MM_1C		
. 0000							mm/bailings multilamily lebs 2020 LLC	DE	NIA	Massachusetts Mutual Life Insurance	Owner Sirip		WWLIC		
. 0000							MML Special Situations Investor LLC	DE	NI A	Company	Ownership	100.000	MMLIC	.	
							operar ortaatrone moster also minimi	52		Massachusetts Mutual Life Insurance					
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	C.M. Life Insurance Company	Influence	0.000	MMLIC		
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC	.	
. 0000							Lyme Adirondack Forest Company, LLC	DE	NIA	Timberland Forest Holding LLC	Ownership	100.000	MMLIC	.	
. 0000							Lyme Adirondack Timberlands I, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	
. 0000							Lyme Adirondack Timberlands II, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	
. 0000							Lyme Adirondack Timber Sales, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Berkshire Way LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			83-0560183				Aland Royalty Holdings LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	26.700	MMLIC	.	
. 0000			82-2932156				GASL Holdings LLC	DE	NI A	MassMutual Holding LLC	Ownership	11.300	MMLIC	.	
. 0000		1	04-1590850				MSP-SC. LLC	DE	NI A	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000		l	UC8UBCI -+U				mor-ou, LLu	ut	NIA	Massachusetts Mutual Life Insurance	Owner Strip	100.000	WWWLIG	.	
. 0000		1					EM Opportunities LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 5500							Spportunition LEO			Massachusetts Mutual Life Insurance				.	
. 0000							MassMutual MCAM Insurance Company, Inc	VT	NIA	Company	Ownership	100.000	MMLIC	.	l
		1		1						Massachusetts Mutual Life Insurance	·		1		
. 0000							MassMutual Ventures US IV, GP, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	.	
. 0000							MassMutual Ventures US IV, LP	DE	NI A	MassMutual Ventures US IV, GP, LLC	Ownership	100.000	MMLIC	.	

# 3.

# SCHEDULE Y

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

PART TA - DETAIL OF INSURANCE HOLDING COMPANT STSTEM															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		_	•	_		-		1			Type	If	1		
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Constition			Deletion			-			
						Name of Securities		<b>D</b>	Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Insurance Road LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			04-1590850				MassMutual Trad Private Equity LLC	DE	NI A	Insurance Road LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MassMutual Intellectual Property LLC	DE	NI A	Insurance Road LLC	Ownership	100.000	MMLIC		
. 0000					l		Trad Investments   LLC	DE	NI A	Insurance Road LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							ITPSHolding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							HITPS LLC	DE	NI A	ITPS Holding LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000					l		JFIN Parent LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000		l					Forma Brands. LLC*	DE	NIA	JFIN Parent LLC	Ownership.	100.000	MMLIC		l
. 0000			27-0105644				Jefferies Finance LLC	DE	NI A	JFIN Parent LLC	Ownership	50.000	MMLIC		1
. 0000			27 0100044				OCTION IOS I MANOC LLO	DL		Massachusetts Mutual Life Insurance	Owner Strip.		I IIII		1
. 0000			86-2294635				Glidepath Holdings Inc.	DE	NIA	Company	Ownership	100.000	MM_IC		
. 0435	Massachusetts Mut Life Ins Co	63312	13-1935920				MassMutual Ascend Life Insurance Company	OH	IA	Glidepath Holdings Inc.	Ownership		MM_IC		
. 0000	massachusetts mut Life ins co	000 12	31-1422717				AAG Insurance Agency, LLC	KY	NIA	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
	Massachusetts Mut Life Ins Co	93661	31-1422717				G 7:	OH	IA	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
. 0435	Massachusetts mut Life ins co		31-1021738				Annuity Investors Life Insurance Company	OH			1 · · · · · · · · · · · · · · · · · · ·	100.000	MMLIC		
. 0000			31-1395344				MM Ascend Life Investor Services, LLC		NIA	MassMutual Ascend Life Insurance Company .	Ownership				
. 0000							MM Ascend Mortgage Lending LLC	OH	NI A	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
. 0000			26-3260520				Manhattan National Holding, LLC	OH	NI A	MassMutual Ascend Life Insurance Company .	Ownership	100.000	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	67083	45-0252531				Manhattan National Life Insurance Company	OH	I A	Manhattan National Holding LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MassMutual Mortgage Lending LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							Jefferies Private Credit BDC Inc	MD	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN GP Adviser LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Fund III LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Credit Partners LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Apex Credit Partners LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Credit Management LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2022 LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MM IC		
. 0000							Jefferies Direct Lending Europe SCSp SICAV-	DL		dericines oreart rai thers LLO	owner strip.	3.300	I III		
. 0000							RAIF	LUX	NI A	Jefferies Credit Partners LLC	Ownership	9.900	MM_IC		
. 0000							Jefferies Credit Management Holdings LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	9.900	MM_IC		
. 0000							Senior Credit Investments, LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership.	9.900	MMLIC		l
. 0000		l					JDLF GP (Europe) S.a.r.l	LUX	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000		l					JFAM GP LLC	LUX	NIA		Ownership		MMLIC		
							JFAM GP LLC			Jefferies Credit Partners LLC					
. 0000								DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund C LP	DE	NIA	JFAM GP LP	Ownership	100.000	MMLIC	[	
. 0000							Jefferies DLF C Holdings LLC	DE	NI A	Jefferies Direct Lending Fund C LLC	Ownership	100.000	MMLIC	[	
. 0000							Jefferies Direct Lending Fund C SPE LLC	DE	NI A	Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC	[	
. 0000							JDLF II GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JDLF II GP LP	DE	NI A	JDLF II GP LLC	Ownership	100.000	MMLIC	[	
. 0000							Jefferies Direct Lending Fund II C LP	DE	NIA	JDLF II GP LP	Ownership	100.000	MMLIC		
. 0000							Jefferies DLF II C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund II C LP	Ownership	100.000	MMLIC		
. 0000		l	l	l	l		Jefferies Direct Lending Fund II C SPE LLC	DE	NIA	Jefferies DLF II C Holdings LLC	Ownership.	100.000	MMLIC		l
. 0000		l	l		l		Jefferies Senior Lending LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MM_IC		1
. 0000							Jefferies Credit Partners BDC Inc	MD	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		l
. 0000							JFIN Revolver Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Holdings IV LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							JFIN Co-Issuer Corporation	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Europe GP, S.a.r.I	LUX	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, S.L.P	LUX	NI A	JFIN Europe GP, S.a.r.I	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, SCSp	LUX	NI A	JFIN Europe GP, S.a.r.I	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Business Credit LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Business Credit Fund I LLC	DE	NI A	Jefferies Finance Business Credit LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Funding 2021 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN High Yield Investments LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN LC Fund LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition LLC	DE	NIA	Beauty Brands Acquisition Holdings LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Intermediate LLC .	DE	NI A	Beauty Brands Acquisition LLC	Ownership	100.000	MMLIC		
										Beauty Brands Acquisition Intermediate LLC					
. 0000							Forma Brands, LLC	DE	NI A		Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-III Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2018 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019-II Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2020 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2021-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2021-V Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-III Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-IV Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Fund, L.P.	DE	NI A	Jefferies Finance LLC	Ownership	90.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2021 III Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2021 IV Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2022-I Ltd	BMU	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE1 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JFIN Revolver SPE3 2022 LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	. [	
. 0000							JFIN Revolver SPE4 2022 LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	. [	
. 0000							SFL Parkway Funding 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JCP Private Loan Management GP LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JCP Private Loan Management LP	DE	NI A	JCP Private Loan Management GP LLC	Ownership		MMLIC	. [	
. 0000							Apex Credit Holdings LLC	DE	NI A	JFIN Parent LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2012 Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	. [	l
. 0000							JFIN CLO 2013 Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC	. [	
. 0000							JFIN CLO 2014 Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	.	
. 0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC	. [	
. 0000							JFIN CLO 2015 Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	. [	l
. 0000							JFIN CLO 2015-II Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership	85.000	MMLIC	.	
. 0000			l				JFIN CLO 2016 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2017 Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC		l
. 0000							JFIN CLO 2017-II Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC		l
. 0000							Tomorrow Parent, LLC	DE	NI A	JFIN Parent LLC	Ownership		MMLIC		l
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											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage		(Yes/No)	*
. 0000	Group Hamo	0000	TTUTTE	ROOD	Oii C	international	Custom Ecology Holdco, LLC	DE	NIA	JEIN Parent LLC	Ownership	100.000	MM IC	(100/110)	
. 0000						•••••	ouston Ecology Horaco, EEO	DL		Massachusetts Mutual Life Insurance	Owner strip.	100.000	WWLIO		1
. 0000			04-1590850				MM Copper Hill Road LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MMV CTF I GP LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							MassMutual Ventures Climate Technology Fund I								
. 0000							LP	DE	NIA	MMV CTF I GP LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MM Direct Private Investments UK Limited	GBR	NIA	MM Direct Private Investments Holding LLC	Ownership	100.000	MMLIC		
0000							DD1 10DE0 0 11 1 1 1 0	DE		Massachusetts Mutual Life Insurance		400.000	IIII 10		
. 0000							DPI-ACRES Capital LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MM Investment Holding	CYM	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MML IC		
. 0000							MMIH Bond Holdings LLC	DE	NIA	MM Investment Holding	Ownership	99.600	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MM Investment Holding	Ownership	99.600	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400	MMLIC		I ]
									NIA		Ownership	100.000	MMLIC		I ]
. 0000			36-4785301 35-2590691				MMAF Equipment Finance LLC 2014-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MML IC		
							MMAF Equipment Finance LLC 2017-A				******		MMLIC		
. 0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			82-5335801 83-3722640				MMAF Equipment Finance LLC 2018-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			83-3/22640			•••••	MMAF Equipment Finance LLC 2019-A	DE	NIA	MassMutual Asset Finance LLC	•	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2019-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000			
. 0000							MMAF Equipment Finance LLC 2020-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2020-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2022-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000			
. 0000							MMAF Equipment Finance LLC 2022-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							Rozier LLC	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			04-2443240				MML Management Corporation	MA	NIA	MM Investment Holding	Ownership	100.000	MMLIC	YES	
. 0000			04-3548444				MassMutual International Holding MSC, Inc	MA	NIA	MML Management Corporation	Ownership	100.000	MMLIC		
. 0000			04-3341767				MassMutual Holding MSC, Inc.	MA	NIA	MML Management Corporation Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000							MML CM LLC	DE	NIA	Company	Ownership	100.000	MMLIC		[ ]
. 0000							Blueprint Income LLC	NY	NIA	MML CM LLC	Ownership	100.000	MMLIC		
. 0000							Flourish Digital Assets LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		[
. 0000							Flourish Financial LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		.[
. 0000							Flourish Holding Company LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		
. 0000							Flourish Insurance Agency LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		
. 0000							Flourish Technologies LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3356880				MML Distributors LLC	MA	NIA	Company	Ownership	99.000	. MMLIC		[]
. 0000			04-3356880				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000	MMLIC		[]
				]						Massachusetts Mutual Life Insurance	1.			1	1
. 0000							MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			40.0000040					DE	A17.5	Massachusetts Mutual Life Insurance		400 000			
. 0000			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			06 1560505	2001445			The Manchitual Trust Com-on: CCD	CT	NIA	Massachusetts Mutual Life Insurance	Ownership	100 000	MMLIC	YES	
. 0000			06-1563535	2881445			The MassMutual Trust Company, FSB		N1A	Company	Owner Sn1p	100.000	MIVIL I U	≀⊵წ	J

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
Code	Group Name	Code	Nullibel	NOOD	CIR	international)	MML Private Placement Investment Company I,	tion	Littly	Massachusetts Mutual Life Insurance	Other)	lage	Littity(les)/Feison(s)	(165/110)	
. 0000			04-1590850				IIIC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-1030000				LLC	UL	NIA	Massachusetts Mutual Life Insurance	owner strip		INVILIO		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Company	Ownership		MML IC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Baring Asset Management Limited	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-2738137				Pioneers Gate LLC	DE	NIA	Company	Ownership		MMLIC		
1		1		1			L			Massachusetts Mutual Life Insurance					
. 0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC	YES	
. 0000			06-1597528				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			37-1732913				Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Low Carbon Energy Holding	GBR	NIA	MassMutual Holding LLC	Ownership	49.000	MMLIC		
. 0000							Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Intermodal Holding II LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Milestone Acquisition Holding LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			46-2252944				Haven Life Insurance Agency, LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			46-4255307				Marco Hotel LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			45-3623262				HB Naples Golf Owner LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			82-4411267				RB Apartments LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Athens Fund Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.000	MMLIC		
. 0000							MassMutual Ventures Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
							MassMutual Ventures SEA Management Private								
. 0000							Limited	DE	NIA	MassMutual Ventures Management LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia II LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia III LLC .	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
								0.01		MassMutual Ventures Southeast Asia III LLC		400.000			
. 0000							MMV Digital I LLC	CYM	NIA		Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures UK LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000			47-1296410				MassMutual Ventures US I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US IV LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MM Rothesay Holdco US LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership	48.800	MMLIC		
. 0000							Rothesay Life Plc	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Mortgages Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.3 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.4 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							LT Mortgage Finance Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Property Partnership 1 LLP	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Foundation	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership		MMLIC		

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											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board.	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries		Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	Loca- tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
	Group Name	Code	Number	KSSD	CIK	international)			,				, , , , ,	(Yes/No)	
. 0000							Rothesay Asset Management Australia Pty Ltd	KHM	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management North America LLC	DE	NI A	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund II LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			47-1466022				LifeScore Labs, LLC	MA	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			45-4000072				MM Asset Management Holding LLC	MA	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			51-0504477				Barings LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			. 04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			. 04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
. 0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
. 0000			51-0504477				Barings LLC	DE	NI A	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		
		1					Baring Asset Management (Asia) Holdings		1		1				
. 0000			. 98-0524271				Limited	HKG	NIA	Barings LLC	Ownership	100.000	MMLIC		
							Baring International Fund Managers (Bermuda)			Baring Asset Management (Asia) Holdings					
. 0000			98-0457465				Limited	BMU	NIA	Limited	Ownership	100.000	MMLIC		
0000			98-0457463				D : 4 4 4 4 4 1 3 1 1 1 1 1	HKG	NIA	Baring Asset Management (Asia) Holdings Limited		100.000	188 10		
. 0000			98-045/463				Baring Asset Management (Asia) Limited				Ownership		MMLIC		
. 0000							Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIG		
. 0000							Barings Investment Management (Shanghai)	HKG	NII A	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
. 0000							Barings Overseas Investment Fund Management	nr.u	NIA	Barings Investment Management (Shanghai)	Owner Strip	100.000	MWLIG		
. 0000							(Shanghai) Limited	HKG	NI A	Limited	Ownership	100.000	MMLIC		
. 0000							(Ghanghar) Emir tou			Baring Asset Management (Asia) Holdings	Omici Sirip		IIIII		
. 0000			98-0457707				Baring SICE (Taiwan) Limited	TWN	NIA	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					
. 0000							Barings Singapore Pte. Ltd	SGP	NI A	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					
. 0000			98-0236449				Barings Japan Limited	JPN	NI A	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					
. 0000							Barings Australia Holding Company Pty Ltd	AUS	NI A	Limited	Ownership	100.000	MMLIC		
. 0000							Barings Australia Pty Ltd	AUS	NIA	Barings Australia Holding Company Pty Ltd	Ownership	100.000	MMLIC		
							Barings Australia Real Estate Holdings Pty								
. 0000			· · · · · · · · · · · · · · · · · · ·				Ltd	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
0000		1	. 14-0045656				Devines Australia Deal 5-4-4- D4-144	ALIO	NIA	Barings Australia Real Estate Holdings Pty	O-manahi-	100.000	MMLIC		
. 0000			. 98-0457456				Barings Australia Real Estate Pty Ltd	AUS	NIA		Ownership	100.000	MMLIC	.	
			. 38-045/456				Altis Property Partners Holdings Pty Ltd	AUS		Barings Australia Real Estate Pty Ltd			MMLIC	.	
. 0000							Altis Asset Management Pty Ltd	AUS	NIA	Altis Property Partners Holdings Pty Ltd .	Ownership	100.000			
. 0000							Altis Property Partners Pty Ltd	AUS	NIA	Altis Property Partners Holdings Pty Ltd .	Ownership	100.000	MMLIC	.	
. 0000							Barings Australia Structured Finance Holdings	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Australia Structured Finance Pty Ltd	AU5	NIA	Barings Australia Structured Finance	Owner Strip	100.000	MWLIG		
. 0000							barnigs Austrania Structureu Finance Fty Ltu	AUS	NIA	Holdings Pty Ltd	Ownership	100.000	MMLIC		
. 0000			80-0875475				Barings Finance LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 00-06/54/5				BCF Europe Funding Limited	IRL	NIA	Barings Finance LLC	Ownership		MMLIC		
. 0000								IKL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC	.	
. 0000							BCF Senior Funding   LLC BCF Senior Funding   Designated Activity	∪⊑	NIA	Dai ings Finance LLC	Ownersnip	100.000	MWLIC	.	
. 0000							Company	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
. 0000		l					Barings Real Estate Acquisitions LLC	IKL	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
. 0000			04-3238351				Barings Securities LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
. 0000		l	. 98-0437588					GGY	NIA	Barings LLC	Ownership	100.000	MMLIC	.	
. 0000			30-043/388				Barings Guernsey Limited	GBR	NIA	Barings Guernsey Limited	Ownership	100.000	MMLIC		
. 0000							Barings Europe Limited	ubh	NIA	Dailings Quernsey Limited	Owner Sn1p	00.000	MIVIL I U		

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											Type	If			1
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						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1 1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1 1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1 1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings Asset Management Spain SL	ESP	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Baring France SAS	FRA	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Baring International Fund Managers (Ireland)	IRL	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		1 1
. 0000							Barings GmbH	DEU	NIA	Barings Europe Limited	Owner Strip	100.000	MMLIC		
. 0000							Barings Italy S.r.I.	ITA	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Sweden AB	SWE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		l
. 0000							Barings Netherlands B.V.	NLD	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0432153				Barings (U.K.) Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Switzerland Sàrl	CHE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0241935				Baring Asset Management Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings European Direct Lending 1 GP LLP	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457328				Baring International Investment Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457587				Baring International Investment Management Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		1 1
. 0000			30-0437307				Horaligs	ubn	NIA	Baring International Investment Management	Owner Strip		MINILI C		
. 0000			98-0457576				Baring Asset Management UK Holdings Limited	GBR	NIA	Holdings	Ownership	100.000	MMLIC		
. 0000			98-0457586				Baring Fund Managers Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							BCGSS 2 GP LLP	GBR	NIA	Baring Fund Managers Limited	Ownership	100.000	MMLIC		
. 0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Core Fund Feeder   GP S.à.r.l	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings BME GP S.à.r.I.	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings GPC GP S.à. r.l	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings European Core Property Fund GP Sàrl	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Investment Fund (LUX) GP S.à. r.l . Barings Umbrella Fund (LUX) GP S.à.r.l	LUX	NIA	Baring Asset Management Limited Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							GPLF4(S) GP S.à r. I	LUX	NIA	Baring Asset Management Limited	Owner Strip	100.000	MMLIC		
. 0000							PREIF Holdings Limited Partnership	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							BMC Holdings DE LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
. 0000			04-3238351	3456895			Barings Real Estate Advisers Inc	CA	NIA	Barings LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1 1
. 0000			81-2244465				Chassis Acquisition Holding LLC	DE	NI A	Company	Ownership/Influence	30.000	MMLIC		
0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	40.000	MMLIC		1 1
. 0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Barings LLC	Uwnership/influence	40.000	MMLIC		
. 0000			83-0560183				Aland Royalty Holdings LP	DE	NIA	Barings LLC	Management		MMLIC		
. 0000		l	82-2932156				GASL Holdings LLC	DE	NIA	Barings LLC	Board		MMLIC		
. 0000			46-2344300				Intermodal Holdings II LLC	DE	NIA	Barings LLC	Management		MMLIC		l
. 0000			47-3055009				Milestone Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		l
										Massachusetts Mutual Life Insurance					1 1
. 0000							Novation Companies, Inc.	MD	NIA	Company	Ownership	17.100	MMLIC		
. 0000							Novation Companies, Inc.	MD	NIA	Barings LLC	Influence		MMLIC		
. 0000			46-5460309				Red Lake Ventures. LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	31.500	MMLIC		1
. 0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Barings LLC	Influence		MMLIC		
. 0000			6000000				TIOU LUNC FOITUIOS, LLO	bL		Massachusetts Mutual Life Insurance			L.I.V		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NIA	Company	Ownership/Influence	19.900	MMLIC		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NIA	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance		45 706			1
. 0000							Tamiami Citrus, LLC	DE	NIA	Company	Ownership	15.700	MMLIC		

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						Exchange		Domi-	ship		Management,	ship		Filing	
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Tamiami Citrus, LLC	DE	NI A	Barings LLC	Management/Board		MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NI A	MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NI A	Barings LLC	Influence		MMLIC		
							in the part of the			Massachusetts Mutual Life Insurance					
. 0000							Techquity, LP	DE	NI A	Company	Ownership	15.600	MMLIC		
. 0000							Techquity, LP	DE	NI A	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							EIP Holdings I, LLC	DE	NIA	Company	Ownership/Influence	29.000	MMLIC		
. 0000			46-0687392				Validus Holding Company LLC	DE	NIA	Barings LLC	Ownership	40.400	MMLIC		
. 0000							VGS Acquisition Holding, LLC	DE	NI A	MassMutual Holding LLC	Ownership/Influence	33.300	MMLIC		
. 0000							VGS Acquisition Holding, LLC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Aland Royalty GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Alaska Future Fund GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							BAI GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BAI Funds SLP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Baring Asset-Based Income Fund (US) GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings CMS Fund GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Infiniti Fund Management LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Barings Hotel Opportunity Venture I GP, LLC	DE	NI A	Company	Ownership		MMLIC		
. 0000							Barings Investment Series LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Emerging Generation Fund GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Emerging Generation Fund GP II, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings ERS PE Emerging Manager III GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
							Barings Global Investment Funds (U.S.)								
. 0000			04-1590850				Management LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Barings CLO Investment Partners GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Core Property Fund GP LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Direct Lending GP Ltd	CYM	NIA	Barings LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			84-3784245				Barings Emerging Generation Fund LP	DE	NI A	Company	Ownership	46.100	MMLIC		
. 0000			84-3784245				Barings Emerging Generation Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
0000							Barings Global Energy Infrastructure	DE				400 000	188.10		
. 0000							Advisors, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000		1	1				Barings Centre Street CLO Equity Partnership GP. LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Barings North American Private Loan Fund	VE	NIA	Dai Higs LLC	owner strip	100.000	MWILTO		
. 0000							Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings North American Private Loan Fund II			Dut mgo LEO	omior on p.				
. 0000							Management LLC	DE	NI A	Barings LLC	Ownership.		MMLIC		
							Barings North American Private Loan Fund III			3.					
. 0000							Management, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
		1	1				Barings Global Special Situations Credit Fund	l	1						
. 0000							4 GP (Delaware) LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings - MM Revolver Fund GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BMT RE Debt Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Global Real Assets Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings GPSF LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
		1	1						1	Massachusetts Mutual Life Insurance	1.	1			
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NI A	Company	Ownership	33.600	MMLIC		
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Barings LLC	Management		MMLIC		l

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											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	, ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000			98-0536233				Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BHOVI Incentive LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BIG Real Estate Incentive   LLC	DE	NIA	Barings LLC	Ownership	100.000	MM_IC		
. 0000							BIG Real Estate Incentive I LLC	DE	NIA	Barings LLC	Owner strip	100.000	MMI IC		
. 0000							BRECS VII GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BREDIF GP LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
. 0000							CREF X GP LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
. 0000			04-1590850				Great Lakes III GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Lake Jackson LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
							Barings Emerging Markets Blended Fund I GP,			3.	•				
. 0000							LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			41-2280126				Mezzco III LLC	DE		Barings LLC	Ownership	99.300	. MMLIC		
. 0000			80-0920285				Mezzco IV LLC	DE	NIA	Barings LLC	Ownership	99.300	. MMLIC		
. 0000							Mezzco Australia II LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							RECSA-NY GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				SBNP SIA II LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							SBNP SIA III LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Amherst Long Term Holdings, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	24.500	MM-1C		
. 0000							Ammerst Long Term Hordings, LLC	UE	NIA	Massachusetts Mutual Life Insurance	owner strip	24.500	.   MWLTC		
. 0000			04-3313782				MassMutual International LLC	DE	NIA	Company	Ownership	100.000	MMLIC	YES	
. 0000							MassMutual Solutions LLC	DE	NIA	MassMutual International LLC	Ownership.	100.000	MMLIC		
. 0000		l					Haven Technologies Asia Limited	HKG	NIA	MassMutual Solutions LLC	Ownership	100.000	MMLIC		l
. 0000							Yunfeng Financial Group Limited	HKG	NIA	MassMutual International LLC	Ownership	24.900	MMLIC		
. 0000							MassMutual Asia Limited (SPV)	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			27-3576835				MassMutual External Benefits Group LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000							MMV CTF I GP LLC	DE	NII A	Massachusetts Mutual Life Insurance	Ownership	100.000	MM-1C		
. 0000							MassMutual Ventures Climate Technology Fund I	DE	NIA	Company	Ownersnip	100.000	MMLIC		
. 0000							IP	DE	NIA	MMV CTF I GP LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	oor				
. 0000			04-1590850				100 w. 3rd Street LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				2160 Grand Manager LLC	DE	NIA	Company	Ownership	95.000	MMLIC		
. 0000			82-2432216				300 South Tryon Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			82-2432216				300 South Tryon Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownersnip	100.000	MMLIC		
. 0000			04-1590850				300 South Tryon LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							000 00000 11 / 001 220 11111111111111111	52		Massachusetts Mutual Life Insurance					
. 0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership/Influence	72.900	. MMLIC		
							Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance			l		
. 0000							LTC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000		1					Barings Affordable Housing Mortgage Fund I	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings Affordable Housing Mortgage Fund II	VE	NI A	Massachusetts Mutual Life Insurance	manayerrent		. IVWVILIO		
. 0000		l	61-1902329	l	l		LLC	DE	NI A	Company	Ownership	100.000	MMLIC		l
							Barings Affordable Housing Mortgage Fund II				•	[			
. 0000		l	61-1902329				LLC	DE	NIA	Barings LLC	Management		MMLIC		

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											Type	If			1
											of Control	Control			1
											(Ownership,	is		Is an	1
						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
0000			05 0000000				Barings Affordable Housing Mortgage Fund III	DE	NIA	Massachusetts Mutual Life Insurance		400.000	MM IC		1
. 0000			85-3036663				Barings Affordable Housing Mortgage Fund III	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			85-3036663				LLC	DE	NIA	Barings LLC	Management		MMLIC		1
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	11.200	MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	Barings LLC	Management		MMLIC		l
							Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance					1
. 0000								IRL	NIA	Company	Ownership/Influence	53.200	MMLIC		
							Barings Emerging Markets Corporate Bond Fund				-				1
. 0000								IRL	NI A	Barings LLC	Ownership	17.200	MMLIC		
							Barings European Real Estate Debt Income Fund			Massachusetts Mutual Life Insurance					1
. 0000								LUX	NI A	Company	Ownership/Influence	66.300	MMLIC		
0000							Barings European Real Estate Debt Income Fund	LUN		2	Influence		MM IC		1
. 0000							Babson Capital Global Special Situation	LUX	NIA	Barings LLC	Influence		MMLIC		
. 0000			98-1206017				Credit Fund 2	DE	NIA	MassMutual Holding LLC	Ownership/Influence	21.800	MMLIC		1
. 0000			1200017				Babson Capital Global Special Situation	DL		massimutuar norumg LEO					
. 0000			98-1206017				Credit Fund 2	DE	NI A	C.M. Life Insurance Company	Ownership		MMLIC		
							Babson Capital Global Special Situation								1
. 0000			. 98–1206017				Credit Fund 2	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			. 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NI A	Company	Ownership/Influence	75.700	MMLIC		
. 0000			. 37-1506417 . 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	3.800	MMLIC		
. 0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings US High Yield Bond Fund	IRL	NIA	Company	Ownership/Influence	55 . 100	MMLIC		1
. 0000							Barings US High Yield Bond Fund	IRL	NIA	Barings LLC	Management		MMLIC		
. 0000							Babson CLO Ltd. 2013-I	CYM	NI A	Barings LLC	Influence		MMLIC		2
. 0000							Babson CL0 Ltd. 2015-I	CYM	NI A	Barings LLC	Influence		MMI IC		3
. 0000							Babson CLO Ltd. 2015-II	CYM	NI A	Barings LLC	Influence		MM_IC		4
. 0000							Babson CLO Ltd. 2016-I	CYM	NIA	Barings LLC	Influence		MMLIC		1
. 0000							Babson CLO Ltd. 2016-II	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO Ltd. 2017-I	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2018-III	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2018-IV	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000			. 98-1473665				Barings CLO 2019-II	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2019-III	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2019-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-1	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-II	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-III	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-I	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-II	CYM	NIA	Barings LLC	Influence		MMLIC		
			98-1624360				Barings CLO 2021-III	CYM	NIA	Barings LLCBarings LLC	Influence		MMLIC		
. 0000			. 98-1024360				Barings CLO 2022-1	CYM	NIA	Barings LLCBarings LLC	Influence		MMLIC		
. 0000							Babson Euro CLO 2014-1 BV	VM	NIA	Barings LLC	Influence		IMMLIC		
. 0000							Babson Euro CLO 2014-1 BV	NLD	NIA	Barings LLC	Influence		IMMLIC		
. 0000							DADSON EULO ULU ZU14-11 BV	NLU	NIA	Dai ings LLU	IIII ruence		MIVIL I U		

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						Name of Securities		D:	Relation-		Board,	Owner-		SCA	
		NAIC				Exchange	Names of	Domi-	ship		Management,	ship		Filing	
Croup			ID	Federal		if Publicly Traded (U.S. or	Names of Parent, Subsidiaries	ciliary	to	Directly Controlled by	Attorney-in-Fact, Influence,	Provide Percen-	Ultimate Controlling	Re-	
Group Code	Group Name	Company Code	Number	RSSD	CIK	International)	Or Affiliates	Loca- tion	Reporting Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	quired? (Yes/No)	*
. 0000	Croup Hame	Couc	Number	ROOD	Ont	internationary	Babson Euro CLO 2015-1 BV	NLD	NIA	Barings LLC	Influence	tage	MLIC	(103/110)	
. 0000			36-037260H				Barings Euro CLO 2019-1 BV	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2019-II BV	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2020-I DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000			37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2021-II DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2021-III DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2022-I DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
0000			81-0841854				Barings CLO Investment Partners LP	DE	NI A	Massachusetts Mutual Life Insurance		92.700	MMLIC		
. 0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA NIA	Company	Ownership/Influence	92.700	MMLIC		
. 0000			81-0841854				Barings Centre Street CLO Equity Partnership	DE	NIA	Barings LLC	management		MMLIC		
. 0000			88-3792609				LP	DE	NI A	Company	Ownership/Influence	25.300	MMLIC		
			00 0.02000							Massachusetts Mutual Life Insurance	a more comp, mindense				
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Company	Ownership/Influence	30.500	MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	C.M. Life Insurance Company	Ownership	2.700	MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Barings LLC	Management		MMLIC		
							Barings Real Estate European Value Add I SCSp			Massachusetts Mutual Life Insurance					
. 0000							D : D   E	GBR	NI A	Company	Ownership/Influence	44.000	MMLIC		
0000							Barings Real Estate European Value Add I SCSp	GBR	NIA	C.M. Life Insurance Company	Ownership	4.900	MMLIC		
. 0000							Barings Real Estate European Value Add I SCSp	GBH	NIA	C.M. Life Insurance Company	Uwnership	4.900	MMLIC		
. 0000							Barrigs hear Estate European varue Auu i 303p	GBR	NI A	Barings LLC	Management		MM-IC		
. 0000										Massachusetts Mutual Life Insurance	management		WWWLTO		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	Company	Ownership/Influence	81.300	MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	C.M. Life Insurance Company	Influence		MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			82-5330194				Barings Global Em. Markets Equity Fund	NC	NI A	Barings LLC	Management		MMLIC		
							Barings Global Energy Infrastructure Fund I	0.01		Massachusetts Mutual Life Insurance		400.000			
. 0000			98-1332384				Barings Global Energy Infrastructure Fund I	CYM	NI A	Company	Ownership/Influence	100.000	MMLIC		
. 0000			98-1332384				Barings Global Energy Intrastructure Fund I	CYM	NI A	Baring Asset Management Limited	Management		MMLIC		
. 0000			30-1002004				Barings Global Dividends Champion Fund	IRL	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings LLC	IRL		Barings LLC			MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	26.800	MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.000	MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	Barings LLC	Management		MMLIC		
							Barings Global Special Situations Credit Fund	ı		-					
. 0000							3	IRL	NIA	MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		
. 0000							Barings Global Special Situations Credit 4	DE	NII A	Massachusetts Mutual Life Insurance	0	70.200	MMLIC		
. 0000							Delaware	DE	NIA	Company	Ownership	/0.200	MMLIC		
. 0000							Delaware	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
							Barings Global Special Situations Credit 4								
. 0000							Delaware	DE	NIA	Barings LLC	Management		MMLIC		
							Barings Global Special Situations Credit 4			Massachusetts Mutual Life Insurance		40.000			
. 0000							Parings Clabel Cassial City to Cas III 4	LUX	NIA	Company	Ownership	13.200	MMLIC		
. 0000							Barings Global Special Situations Credit 4	LUX	NI A	C.M. Life Insurance Company	Ownership	0.700	MMLIC		
. 0000							Barings Global Special Situations Credit 4		INI M	O.m. Life insurance company	Omiret 91116	0.700	INVILIO		
. 0000			l				LUX	LUX	NIA	Barings LLC	Management		MMLIC		
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						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
							Barings Global Special Situations Credit Fund			(**************************************	1	90	=,(,(,	(1001110)	
. 0000							3	IRL	NI A	Barings LLC	Management		MMLIC		
. 0000							Barings Global Technology Equity Fund	IRL	NI A	Barings LLC	Ownership/Influence	73.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			. 87-0977058				Barings Hotel Opportunity Venture	CT	NI A	Company	Ownership/Influence	48.700	MMLIC		
. 0000			. 87-0977058				Barings Hotel Opportunity Venture	CT	NI A	Barings LLC	Management		MMLIC		
							Barings Innovations & Growth Real Estate Fund			Massachusetts Mutual Life Insurance					1
. 0000			. 86-3661023					DE	NI A	Company	Ownership	32.800	MMLIC		
							Barings Innovations & Growth Real Estate Fund								1
. 0000			. 86-3661023					DE	NIA	C.M. Life Insurance Company	Ownership	0.500	MMLIC		
. 0000							Barings Middle Market CLO 2017-I Ltd & LLC .	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Middle Market CLO 2019-I	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 98-1612604				Barings Middle Market CLO Ltd 2021-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 38-4010344				Barings North American Private Loan Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	37.500	MMLIC		
. 0000			. 38–4010344				Barings North American Private Loan Fund LP	DE	NIA	Baring Asset Management Limited Massachusetts Mutual Life Insurance	Management		MMLIC		
. 0000			. 98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Company	Ownership/Influence	33.700	MMLIC		
. 0000			. 98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Baring Asset Management Limited	Management		MMLIC		
							Barings Target Yield Infrastructure Debt Fund			Massachusetts Mutual Life Insurance					1
. 0000			. 98-1567942					LUX	NIA	Company	Ownership	18.400	MMLIC		
							Barings Target Yield Infrastructure Debt Fund								1
. 0000			. 98-1567942					LUX	NIA	Baring Asset Management Limited	Management		MMLIC		
. 0000			. 87-1262754				Barings Transportation Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	11.700	MMLIC		
0000			. 87-1262754				Barings Transportation Fund LP	DE	NII A	Massachusetts Mutual Life Insurance	0hi	0.000	MMLIC		1
. 0000			. 87-1202754				Barings Transportation Fund LP	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	8.200	MWLIC		
. 0000							Braemar Energy Ventures I, L.P.	DE	NIA	Company	Ownership/Influence	89.300	MML IC		1
. 0000							Braemar Energy Ventures I, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership	1.300	MMLIC		
. 0000							Braemar Energy Ventures I, L.P.	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	7.600	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership	0.500	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management	0.300	MMLIC		
. 0000							barrings European core rroperty rund 303p	LUX		Massachusetts Mutual Life Insurance	management		MWLIC		
. 0000			. 46-5001122				Barings European Private Loan Fund III A	LUX	NI A	Company	Ownership	45.200	MMLIC		1
. 0000			. 38-4059932				Benchmark 2018-B2 Mortgage Trust	NY	NI A	Barings LLC	Influence		MM_IC		1
. 0000							Benchmark 2018-B4	NY	NIA	Barings LLC	Influence		MM_IC		1
. 0000			. 38-4096530				Benchmark 2018-B8	NY	NIA	Barings LLC	Influence		MMLIC		l
. 0000			. 20-5578089				Barings Core Property Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	23.300	MM_IC		1
. 0000			20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MM_IC		l
. 0000			. 20 00/0000				Duringo core rroporty runa Er	02		Massachusetts Mutual Life Insurance	managomort:				1
. 0000			. 35-2531693				Cornerstone Permanent Mortgage Fund III LLC	MA	NI A	Company	Ownership/Influence		MMLIC		1
										Massachusetts Mutual Life Insurance					1
. 0000			. 61–1793735				Cornerstone Permanent Mortgage Fund IV LLC	MA	NIA	Company	Ownership	100.000	MMLIC		
		I	1		1					Massachusetts Mutual Life Insurance					
. 0000			. 90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NI A	Company	Ownership/Influence	34.800	MMLIC		
. 0000			. 90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Ownership	5.200	MMLIC		
. 0000			. 90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NI A	Barings LLC	Management		MMLIC		
0000		1	07 4700000					DE		Massachusetts Mutual Life Insurance		42 400	144 10		
. 0000			. 37-1708623				Great Lakes III, L.P.	DE	NI A	Company	Ownership/Influence	41.400	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Conpany	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000	Gloup Name	Code	37-1708623	KOOD	CIN	international)	Great Lakes III. L.P.	DE	NIA	Barings LLC	Management	lage	MMLIC	(165/110)	
. 0000			37-1700023				Great Lakes III, L.F	VE	NIA	Massachusetts Mutual Life Insurance	management		MWLIC		
. 0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Company	Ownership/Influence	63.300	MM_IC		
. 0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	Management		MMLIC		
. 0000							JPMCC Commercial Mortgage Securities Trust	LUX	NIA	Dai mgs LLC	management		MWILTO		
. 0000			38-4041011				2017-JP7	NY	NIA	Barings LLC	Influence		MM_IC		
. 0000			00 1011011				JPMDB Commercial Mortgage Securities Trust			Dut mgo LEO	THI TUSTION				
. 0000		l	38-4032059				2017-C5	NY	NIA	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Miami Douglas Two GP LLC	DE	NI A	Company	Influence	0.000	MMLIC		
. 0000			04-1590850				Miami Douglas Two GP LLC	DE	NI A	C.M. Life Insurance Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Miami Douglas Two LP	DE	NIA	Company	Ownership	90.000	MMLIC		
. 0000			04-1590850				Miami Douglas Two LP	DE	NIA	C.M. Life Insurance Company	Ownership	10 .000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Miami Douglas Three MM LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NIA	Company	Ownership	27.800	MMLIC		
. 0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
										Massachusetts Mutual Life Insurance		400.000			
. 0000							MM CM Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-1590850				MM Direct Private Invetment Holding	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MML IC		
. 0000			04-1090800				MM Direct Private invetment Holding	DE	NIA	Company Massachusetts Mutual Life Insurance	Uwnersnip	100.000	MWLIC		
. 0000			81-3000420				MM Debt Participations LLC	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
. 0000			81-3000420				MM Debt Participations LLC	DE	NIA	Barings LLC	Management		MMI IC		
. 0000			61-3000420				mm Debt Farticipations LLC	DE	NIA	Massachusetts Mutual Life Insurance	management		MWILTO		
. 0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	Company	Ownership/Influence	40 . 100	MM_IC		
. 0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	C.M. Life Insurance Company	Ownership	1.900	MMLIC		
			20 0000077			***************************************	omorout openar opportunities rand E.F			Massachusetts Mutual Life Insurance	owner out p	1.000			
. 0000			35-2553915				Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			41-2280127				Tower Square Capital Partners III, L.P	DE	NIA	Barings LLC	Management		MM_IC		
. 0000			41-2280127				Tower Square Capital Partners III, L.P	DE	NIA	MassMutual Holding LLC	Ownership/Influence	16.500	MM_IC		
							The same same same same same same same sam			Massachusetts Mutual Life Insurance					
. 0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership/Influence	93 . 100	MMLIC		
. 0000			41-2280129	l			Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management		MMLIC		
							100 100 100 100 100 100 100 100 100 100			Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Trailside MM Member LLC	DE	NIA	Company	Ownership	66.970	MMLIC		
. 0000			04-1590850				Trailside MM Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	7.400	MMLIC		
										Massachusetts Mutual Life İnsurance					
. 0000			04-1590850				Trailside MM Member II LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			83-1325764				Washington Gateway Two LLC	DE	NIA	Company	Ownership	96.020	MMLIC		
. 0000			83-1325764				Washington Gateway Two LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.700	MMLIC		
			1	1				1		Massachusetts Mutual Life Insurance					
. 0000			32-0574045				Washington Gateway Three LLC	DE	NIA	Company	Ownership	95.380	MMLIC		
. 0000			32-0574045				Washington Gateway Three LLC	DE	NIA	C.M. Life Insurance Company	Ownership	11.400	MMLIC		
1			l	1				l		Massachusetts Mutual Life Insurance	L				
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NIA	Company	Ownership	93.800	MMLIC		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.300	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance					
. 0000							Martello Re	BMU	NI A	Company	Ownership/Influence	0.300	MMLIC		
0000							Babson Capital Loan Strategies Master Fund LP	0)/14	NIA				MMLIC		
. 0000							Barings China Aggregate Bond Private	CYM	NIA	Barings LLC	Management		MMLIG		
. 0000							Securities Investment Fund	CHN	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings European Growth Trust Fund	GBR	NI A	Barings LLC	Ownership/Influence	26.000	MMLIC		
. 0000			47-3790192				Barings Global High Yield Fund	MA	NI A	Barings LLC	Management		MMLIC		
. 0000			47 0730132				CCIC Fund	CHN	NI A	Barings LLC	Ownership/Influence	67.400	MMLIC		
. 0000										Massachusetts Mutual Life Insurance	Same carry, mirragines				
. 0000			71-1018134				Great Lakes II LLC	DE	NI A	Company	Ownership	10.600	MMLIC		
. 0000			71-1018134				Great Lakes II LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.980	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Wood Creek Venture Fund LLC	DE	NI A	Company	Ownership	40.000	MMLIC		
. 0000			13-1935920				MMLIC Debt Participations LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Barings California Mortgage Fund IV	CA	NIA	Company	Ownership	100.000	MMLIC		
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Massachusetts Mutual Life Insurance Company	Ownership	50.000	MMLIC		
. 0000							Barings Umbrella Fund LUX SCSp SICAV HAIF	LUX	NIA	C.M. Life Insurance Company	Owner ship	2.300	MMLIC		
. 0000							barrings umbrerra rund Lox 505p STCAV HATE	LUX	NIA	Massachusetts Mutual Life Insurance	owner strip	2.300	MWILTO		
. 0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	Company	Ownership	90.000	MMLIC		
. 0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NI A	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			95-4207717				Cornerstone California Mortgage Fund I LLC	CA	NI A	Company	Ownership	100.000	MMLIC		
0000			95-4207717					- 04		Massachusetts Mutual Life Insurance	Ownership		MMLIC		
. 0000			95-420//1/				Cornerstone California Mortgage Fund II LLC Cornerstone California Mortgage Fund III LLC	CA	NI A	Company	Uwnersnip	100.000	MMLIG		
. 0000			95-4207717				Cornerstone California Mortgage Fund III LLC	CA	NI A	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			93-4207717					UA	NIA	Massachusetts Mutual Life Insurance	owner strip	100.000	MWILTO		
. 0000		l	56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	Company	Ownership	90.000	MMLIC		
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
. 0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NI A	Barings LLC	Management		MMLIC		
1								l		Massachusetts Mutual Life Insurance	L				
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Barings LLC	Management		MMLIC		
. 0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000			01-1/83/33				Connerstone Fermanent mortgage Fund IV	MA	NI A	Company	Owner Sillp		INVILIO		
. 0000		l	20-0348173				CREA/PPC Venture LLC	DE	NI A	Company	Ownership	28.500	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NI A	Company	Ownership	94.400	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				DPI Acres Capital SPV LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000			04 4500050				5 D J 5 A A H J II	DE		Massachusetts Mutual Life Insurance		F0. 000	188.10		
. 0000			04-1590850				Euro Real Estate Holdings LLC	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	50.000	MMLIC		
. 0000			20-3347091				Fan Pier Development LLC	DE	NI A	Company	Ownership	65.000	MMLIC		
. 0000			20~004/001				I all I let bevelopment LLC	DE	NIA	oumpany	Towns 2111h		INMINIL IV		

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											(Ownership,	is		Is an	1
						Name of Securities			Relation-		Board.	Owner-		SCA	1
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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent. Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000	Croup Hume	0000	20-3347091	ROOD	Unit	international)	Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC	(100/110)	
. 0000			20 004/001				Tail Fiel Development LLO	bL		Massachusetts Mutual Life Insurance	Owner Strip		WWL10		
. 0000			04-1590850				GIA EU Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			81-5360103				Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-1590850				MM Brookhaven Member LLC	DE	NI A	Company	Ownership	95.000	MMLIC		
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	82.700	MMLIC		1
. 0000			04-1590850						NIA	Company	Ownership	12.300	MMLIC		
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Massachusetts Mutual Ascend	Uwnersnip	12.300	. MMLIC		
. 0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		1
. 0000			04 1000000				Last Godth Grossing monber LEG	bL		Massachusetts Mutual Life Insurance	Owner Strip		WWL10		
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		1
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
. 0000			04-1590850				MM National Self-Storage Program Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	98.000	MMLIC		
. 0000			04-1590850				MM 1400 E 4th Street Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	96.000	MMLIC		1
										Massachusetts Mutual Life Insurance	·				1
. 0000			80-0948028				One Harbor Shore LLC	DE	NI A	Company	Ownership	94.990	MMLIC		
. 0000			80-0948028				One Harbor Shore LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-1590850				PACO France Logistics LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							Salomon Brothers Commercial Mortgage Trust	DE	NIA	Barings Real Estate Advisers LLC	Influence		MMLIC		1
. 0000							2001-11111	VE	NIA	Massachusetts Mutual Life Insurance	Initiuence		MWLIC		
. 0000			81-5273574				Three PW Office Holding LLC	DE	NI A	Company	Ownership	95.100	MMLIC		1
			0. 02.00				00 1 11 01 1100 1101 111 11 11 11 11 11	52		Massachusetts Mutual Life Insurance					l I
. 0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NI A	Company	Ownership	95.440	MMLIC		
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership	4.800	MMLIC		
			5.4 0500000							Massachusetts Mutual Life Insurance					1
. 0000			51-0529328		0000927972		MassMutual Premier Main Street Fund	MA	NIA	Company Massachusetts Mutual Life Insurance	Ownership		MMLIC		
. 0000			26-3229251		0000927972		MassMutual Premier Strategic Emerging Markets	MA	NIA	Company	Ownership	27 . 100	MMLIC		1
. 0000			20-3223231		0000321312		I uliu	IMA	NIA	Massachusetts Mutual Life Insurance	owner strip	27 . 100	WWILL TO		
. 0000			04-3512593		0000916053		MassMutual Select Fundamental Growth Fund	MA	NIA	Company	Ownership	3.400	MMLIC		l
										Massachusetts Mutual Life Insurance					1
. 0000			42-1710935		0000916053		MassMutual Select Mid-Cap Value Fund	MA	NI A	Company	Ownership	29.200	MMLIC		
							MassMutual Select Small Capital Value Equity			Massachusetts Mutual Life Insurance					1
. 0000			02-0769954		0000916053		Fund	MA	NI A	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-3584140		0000916053		MassMutual Select Small Company Value Fund . MassMutual Select T. Rowe Price Retirement	MA	NIA	Company	Ownership	18.200	MMLIC		
. 0000			82-3347422		0000916053		2005 Fund	MA	NIA	Company	Ownership	5.400	MM_IC	1	1
. 0000			02-0041422		66000 10000		MassMutual Select T. Rowe Price Retirement	MA	INI M	Massachusetts Mutual Life Insurance	Owner SITP	5.400	WWLIO		
. 0000		l	82-3355639		0000916053		2010 Fund	MA	NIA	Company	Influence	0.000	MMLIC		I I
			0000000				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3382389		0000916053		2015 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
		1					MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance				1	1
. 0000			82-3396442		0000916053		2020 Fund	MA	NI A	Company	Influence	0.000	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.Š. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3417420		0000916053		2025 Fund	MA	NI A	Company	Influence	0.000	MMLIC		
0000			82-3430358		0000916053		MassMutual Select T. Rowe Price Retirement	MA	NILA	Massachusetts Mutual Life Insurance	lath	0.000	188 10		1
. 0000			82-3430338		0000916053		2030 Fund	MA	NIA	Company	Influence	0.000	MMLIC		1
. 0000			82-3439837		0000916053		2035 Fund	MA	NIA	Company	Influence	0.000	MM_IC		1
. 0000			02 0100001				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	THI TUSTION				1
. 0000			82-3451779		0000916053		2040 Fund	MA	NI A	Company	Influence	0.000	MMLIC		1
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3472295		0000916053		2045 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3481715		0000916053		2050 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
. 0000			82-3502011		0000916053		MassMutual Select T. Rowe Price Retirement 2055 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MM_IC		1
. 0000			02-0002011		0000310033		MassMutual Select T. Rowe Price Retirement	ma	NIA	Massachusetts Mutual Life Insurance	IIII Tuence		INVILIO		
. 0000		l	82-3525148		0000916053		2060 Fund	MA	NI A	Company	Influence	0.000	MMLIC		i l
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3533944		0000916053		Balanced Fund	MA	NIA	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence	100.000	MMLIC		
. 0000			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		1
. 0000			47-0023000				minic Series II Dynamic Bond Fund	ma	NIA	Massachusetts Mutual Life Insurance	IIII Tuence		INVILIO		
. 0000			47-3544629				MML Series II Equity Rotation Fund	MA	NI A	Company	Ownership	95.800	MMLIC		I I
										Massachusetts Mutual Life Insurance					1
. 0000			27-1933389		0000916053		MassMutual RetireSMART 2035 Fund	MA	NI A	Company	Ownership	3.900	MMLIC		
0000			27-1932769		0000916053		W W +   D +   OWDT 0045 F	MA		Massachusetts Mutual Life Insurance		8.800	188.10		1
. 0000			27-1932/69		0000916053		MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	8.800	MMLIC		
. 0000			46-3289207		0000916053		MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	22.900	MM_IC		1
			020020				2555 1 4.14			Massachusetts Mutual Life Insurance	5				ı l
. 0000			47-5326235		0000916053		MassMutual RetireSMART 2060 Fund	MA	NI A	Company	Ownership	43.800	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			45-1618155		0000916053		MassMutual 20/80 Allocation Fund	MA	NI A	Company	Influence	100.000	MMLIC		
. 0000			45-1618222		0000916053		MassMutual 80/20 Allocation Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	51.600	MMLIC		1
. 0000			45-1010222		0000310033		massmutuar 60/20 Arrocatron runu	m/\	NIA	Massachusetts Mutual Life Insurance	owner strip		I WWL TO		
. 0000		l	03-0532464		0000916053		MassMutual RetireSMART In Retirement Fund	MA	NI A	Company	Ownership	2.000	MMLIC		i l
										Massachusetts Mutual Life Insurance					1
. 0000			45-1618262		0000916053		MassMutual 40/60 Allocation Fund	MA	NIA	Company	Influence	100.000	MMLIC		
			15 1010010							Massachusetts Mutual Life Insurance		400.000			1
. 0000			45-1618046		0000916053		MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			45-1618046		0000916053		MassMutual ishares 60/40 Allocation Fund	MA	NIA	Company	Ownership	78.400	MMLIC		1 1
								m/1		Massachusetts Mutual Life Insurance					
. 0000			04-3212054		0000916053		MassMutual Balanced Fund	MA	NI A	Company	Ownership	100.000	MMLIC		[ ]
										Massachusetts Mutual Life Insurance					1 1
. 0000			04-3556992		0000916053		MassMutual Blue Chip Growth Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-3277549		0000916053		MassMutual Core Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership		MMLIC		1 1
. 0000			04-0211048		66000 60000		massmutuai coi e dollu fullu	IWA	NIA	Massachusetts Mutual Life Insurance	Owner SITIP	100.000	INNVILIO		
. 0000			04-3539084		0000916053		MassMutual Disciplined Growth Fund	MA	NI A	Company	Ownership	100.000	MMLIC		I I
										1 1 /		r			

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											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board.	Owner-		SCA	
						Exchange		Domi-	ship		Management.	ship		Filing	
		NAIG					Ni 6	-	- · · · · ·						
		NAIC				if Publicly Traded	Names of	ciliary	to	B: # 0 / # 11	Attorney-in-Fact,	Provide		Re-	
Group		Company	. ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance					
. 0000			04-3539083		0000916053		MassMutual Disciplined Value Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			01-0821120		0000916053		MassMutual Diversified Value Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
								l		Massachusetts Mutual Life Insurance		400 000			
. 0000			04-3512590		0000916053		MassMutual Equity Opportunities Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
2000			04 0540500		0000040050					Massachusetts Mutual Life Insurance		400 000	MML IC		
. 0000			04-3512589		0000916053		MassMutual Growth Opportunities Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			03-0532475		0000916053		MassMutual Inflation-Protected and Income		NIA		Ownership	100.000	188.10		
. 0000			03-0532475		0000916053		Fund	MA		Company	Ownersnip	100.000	MMLIC		
. 0000			04-3512596		0000916053		MassMutual Mid Cap Growth Fund	MA	NIA		Ownership	100 000	MMLIC		
. 0000			04-3512596		0000916053		massmutual mid cap Growth Fund	MA		Company	Ownersnip	100.000	MMLIC		
. 0000			04-3464165		0000916053		MassMutual Premier Diversified Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100 000	MMLIC		
. 0000			04-3404 103		0000916055		MassMutual RetireSMART by JPMorgan 2065 Fund			Massachusetts Mutual Life Insurance	owner strip	100.000	WWLIG		
. 0000			92-1441036		0000916053		massmutual Retifesmani by Jemorgan 2005 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100 000	MMLIC		
. 0000			92-1441030		0000916055			MA		Massachusetts Mutual Life Insurance	owner strip	100.000	WWLIG		
. 0000			45-1618222		0000916053		MassMutual Select 80/20 Allocation Fund	MA	NIA	Company	Ownership	100 000	MMLIC		
. 0000			45-1010222		0000910055		massmutual Select 60/20 Allocation Fund	MA		Massachusetts Mutual Life Insurance	owner sirrp	100.000	WWLTC		
. 0000			04-3584138		0000916053		MassMutual Select Fundamental Value Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-0004100		0000310033		massmutual Select Fulluamental value Fullu	ma	NIA	Massachusetts Mutual Life Insurance	Owner Sirip	100.000	INVILIO		
. 0000			04-3557000		0000916053		MassMutual Select Overseas Fund	MA	NIA	Company	Ownership	100.000	MM_IC		
. 0000			01 0001000				MassMutual Select T Rowe Price Retirement			Massachusetts Mutual Life Insurance	Owner of the				
. 0000			92-1427882		0000916053		2065 Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
			02 1121 002 11				2000 1 0.10			Massachusetts Mutual Life Insurance					
. 0000			04-3464205		0000916053		MassMutual Small Cap Growth Equity Fund	MA	NIA	Company	Ownership.	100.000	MMLIC	l	
							,,			Massachusetts Mutual Life Insurance	,				
. 0000			04-3424705		0000916053		MassMutual Small Cap Opportunities Fund	MA	NI A	Company	Ownership	100.000	MMLIC	l	
							. 11			Massachusetts Mutual Life Insurance	·				
. 0000			02-0769954		0000916053		MassMutual Small Cap Value Equity Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
					1			1		Massachusetts Mutual Life Insurance					
. 0000			26-0099965		0000916053		MassMutual Strategic Bond Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
				1				1							

Asterisk	Explanation
1 Massachusetts Mutual Life Insurance	ompany owns 14.23% of the affiliated debt of Jefferies Finance LLC
2 Debt investors own 9.6% and includes	only Babson Capital Loan Strategies Fund, L.P.
	nly Great Lakes III, L.P.
	nlý Great Lakes III, L.P.

#### SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

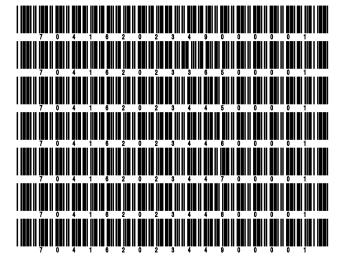
The following supplemental reports are required to be filed as part of your statement filing. However, in the event that your company does not transact the type of business for which the special report must be filed, your response of NO to the specific interrogatory will be accepted in lieu of filing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

		Response
1.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2.	Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
5.	Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC?	NO
6.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
7.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
8.	Will the Life PBR Statement of Exemption be filed with the state of domicile by July 1st and electronically with the NAIC with the second quarterly filing per the Valuation Manual (by August 15)? (2nd Quarter Only) The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter. In the case of an ongoing statement of exemption, enter "SEE EXPLANATION" and provide as an explanation that the company is utilizing an ongoing statement of exemption	N/A
	AUGUST FILING	
9.	Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter.	N/A
	Explanation:	
1.	Not required.	
2.	This line of business is not written by the company.	
3.	Not required.	
4.	Not required.	

Not required.Bar Code:

5. Not required.6. Not required.

- 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**

# NONE

# **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		
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.2 Additional investment made after acquisition		
3.	Current year change in encumbrances		
4.	Total gain (loss) on disposals		
5.	Deduct amounts received on disposals		
6.	Total foreign exchange change in book/adjusted rying		
7.	Deduct current year's other than temporary impailment recognized		
8.	Deduct current year's depreciation		
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**

Mortgage Loans

	* *	1	2
		Versita Bata	Prior Year Ended
		Year to Date	December 31
1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	1,657,058	1,771,148
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.1 Actual cost at time of acquisition	1,245	4,596
3.	Capitalized deferred interest and other		
4.	Accrual of discount	(96)	(793)
5.	Unrealized valuation increase (decrease)		
6.	Total gain (loss) on disposals  Deduct amounts received on disposals		
7.	Deduct amounts received on disposals	48,943	234,778
8.	Deduct amortization of premium and mortgage interest points and commitment fees	93 073	(116 885)
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest		
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)	1,516,191	1,657,058
12.	Total valuation allowance		
13.	Subtotal (Line 11 plus Line 12)	1,516,191	1,657,058
14.	Deduct total nonadmitted amounts		
15.	Statement value at end of current period (Line 13 minus Line 14)	1,516,191	1,657,058

#### **SCHEDULE BA - VERIFICATION**

Other Long-Term Invested Assets

	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	191,076	
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.2 Additional investment made after acquisition		382 , 152
3.	Capitalized deferred interest and other		
4.	Accrual of discount		
5.	Unrealized valuation increase (decrease)		
6.	Unrealized valuation increase (decrease)		
7.	Deduct amounts received on disposals		191,076
8.	Deduct amortization of premium and depreciation		L
9.	Total foreign exchange change in book/adjusted carrying value  Deduct current year's other than temporary impairment recognized		
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)	191,076	191,076
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)	191,076	191,076

#### **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	212,935,211	218,740,303
2.	Cost of bonds and stocks acquired	5,284,060	1,097,660
3.	Accrual of discount	81,701	525 , 198
4.	Unrealized valuation increase (decrease)	(858)	242,291
5.	Total gain (loss) on disposals	(25,978)	(139,847)
6.	Deduct consideration for bonds and stocks disposed of		
7.	Deduct amortization of premium	65,042	411,368
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Total foreign exchange change in book/adjusted carrying value  Deduct current year's other than temporary impairment recognized	330,010	30,416
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees		286,492
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	211,812,888	212,935,211
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)	211,812,888	212,935,211

# **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.

Dulli	ig the Current Quarter fo		, , , , , , , , , , , , , , , , , , , ,	Designation				
	1	2	3	4	5	6	7	8
	Book/Adjusted	Acquicitions	Dianositions	Non Trading Activity	Book/Adjusted	Book/Adjusted	Book/Adjusted	Book/Adjusted
	Carrying Value Beginning	Acquisitions During	Dispositions During	Non-Trading Activity During	Carrying Value End of	Carrying Value End of	Carrying Value End of	Carrying Value December 31
NAIC Designation	of Current Quarter	Current Quarter	Current Quarter	Current Quarter	First Quarter	Second Quarter	Third Quarter	Prior Year
- · · · · · · · · · · · · · · · · · · ·								
BONDS								
1. NAIC 1 (a)	134,585,649	4,339,060	5,613,394	(35,421)	133,275,894			134,585,649
2. NAIC 2 (a)		357,344,034	360 . 241 . 174	528,530	181,057,036			183,425,646
3. NAIC 3 (a)	, , ,		1,317		4 . 126 . 546			4,119,319
4. NAIC 4 (a)				(21)	6.215			6,331
5. NAIC 5 (a)	,		1.900	` ′	999.673			999.646
6. NAIC 6 (a)			1,000	539.400	539.400			
7. Total Bonds	323,136,591	361,683,094	365,857,880		320,004,764			323,136,591
7. Total borius	020, 100,091	301,000,094	303,037,000	1,042,939	320,004,704			020, 100,001
PREFERRED STOCK								
8. NAIC 1								
9. NAIC 2								
10. NAIC 3								
11. NAIC 4								
12. NAIC 5								
13. NAIC 6								
14. Total Preferred Stock								
15. Total Bonds and Preferred Stock	323, 136, 591	361,683,094	365,857,880	1,042,959	320,004,764			323,136,591

a	) Book/Ad	usted (	Carrying	ı Value	e column	for the	end of	the cur	rent re	eporting	nerio	d inclu	ides th	ne follo	owina	amount	of sho	ort-tern	and	cash e	equivale	nt bond	ls by	/ NAIC	desid	anation

#### **SCHEDULE DA - PART 1**

-		Snor	t- I erm	1 Inves	stments	i			
		1			2		3	4	5 Paid for
	Bo Ca	/Adju ing/ue		Р	Įе		Actual Cost	Interest Collected Year-to-Date	Accrued Interest Year-to-Date
770999999 Totals					XX				
				/					

# **SCHEDULE DA - VERIFICATION**

Short-Term Investments

	Short-reini investments	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year		5,999,418
2.	Cost of short-term investments acquired		
3.	Accrual of discount		582
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals		
6.	Deduct consideration received on disposals		6,000,000
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)		
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)		

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

Schedule DB - Part B - Verification - Futures Contracts

#### NONE

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

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

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

NONE

# **SCHEDULE E - PART 2 - VERIFICATION**

(Cash Equivalents)

	(Cash Equivalents)	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	110,224,032	107,988,780
2.	Cost of cash equivalents acquired		
3.	Accrual of discount		
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	225	(1,479)
6.	Deduct consideration received on disposals	359,791,683	2,725,156,281
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)	108,213,671	110,224,032
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	108,213,671	110,224,032