

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

## QUARTERLY STATEMENT

AS OF MARCH 31, 2022

# OF THE CONDITION AND AFFAIRS OF THE

# ANNUITY INVESTORS LIFE INSURANCE COMPANY

NAI	C Group Code043 (Curro		NAIC Company Code	_93661	Employer's ID Numi	per31-1021738	
Organized under the Laws of	ОН						
Country of Domicile			United States of A	merica			
Licensed as business type:		Life, Accide	ent and Health [X] Frat	ernal Benefit	Societies [ ]		
Incorporated/Organized	11/1	3/1981		Commence	ed Business	12/21/1981	
Statutory Home Office	301 Ea	st Fourth Street			Cincin	nati, OH, US 45202	
	(Stree	t and Number)			(City or Town, S	State, Country and Zip Code)	
Main Administrative Office			301 East Fourth	Street			
			(Street and Nu	mber)			
	Cincinnati, OH, US 4					513-357-3300	
(City or	Town, State, Country a	nd Zip Code)			(Area Cod	e) (Telephone Number)	
Mail Address	Post Office				Cincin	nati, OH, US 45201	
	(Street and Num	per or P.O. Box)				State, Country and Zip Code)	
Primary Location of Books and	Records		301 East Fourt	1 Street			
			(Street and Nu				
	Cincinnati, OH, US 45		÷			513-357-3300	
(City or	Town, State, Country a	nd Zip Code)			(Area Cod	e) (Telephone Number)	
Internet Website Address			www.massmutu	al.com			
Statutory Statement Contact		)-h					
otatulory otatement contact		(Name)				513-412-1735	
	rearle@gaig.com				Code) (Telephone Number) 513-412-1673		
	(E-mail Address)		· · · ·	(FAX Number)			
					```	, settember,	
			OFFICER	S			
President	Mark	Francis Muething	1		Treasurer	Christopher Patrick Miliano	
Secretary _	Jol	n Paul Gruber		Appoint	ed Actuary		
			OTHER				
Adrienne Su	san Baglier		Michael Robert			Michael Harrison Haney	
Brian Patrick Sponaugle						wichaci hamson hancy	
Dominic Lusean Blue			DIRECTORS OR TRUSTEES				
Geoffrey Jam		O	Elizabeth Ward Roger William			Susan Marie Cicco	
Paul Antho			Mark Francis M		(0)	Michael Robert Fanning	
Eric Willia			Gareth Fieldin			Michael James O'Connor Arthur William Wallace III	
					11		

State of Ohio - SS: County of Hamilton

The officers of this reporting entity being duly sworn, each depose and say that they are the described officers of said reporting entity, and that on the reporting period stated above, all of the herein described assets were the absolute property of the said reporting entity, free and clear from any liens or claims thereon, except as herein stated, and that this statement, together with related exhibits, schedules and explanations therein contained, annexed or referred to, is a full and true statement of all the assets and liabilities and of the condition and affairs of the said reporting entity as of the reporting period stated above, and of its income and deductions therefrom for the period ended, and have been completed in accordance with the NAIC Annual Statement Instructions and Accounting Practices and Procedures manual except to the extent that: (1) state law may differ; or, (2) that state rules or regulations require differences in reporting not related to accounting practices and procedures, according to the best of their information, knowledge and belief, exact copy (except for formatting differences/due to electronic filing) of the enclosed statement. The electronic filing may be requested by various regulators in lieu of or in addition to the exict dest statement.

CAG. M Mark Francis Muething John Paul Gruber Christopher Patrick Miliano President

Secretary

a. Is this an original filing? .....

- b. If no.
- 1. State the amendment number... 2. Date filed
- 3. Number of pages attached.
- Treasurer Yes[X]No[]

Subscribed orn to before me this d swo day of

re

Notary Public State of Ohio My Comm. Expires August 9, 2025

May 2022

tald

SHERRI L BARNES

	AS	SETS			
			4		
		1	2	3 Net Admitted Assets	December 31 Prior Year Net
1	Ponde	Assets 2.320.945.019	Nonadmitted Assets	(Cols. 1 - 2) 2,320,945,019	Admitted Assets
	Bonds			2,320,943,019	2, 109, 149,427
Ζ.	2.1 Preferred stocks	0		0	7 307 314
	2.2 Common stocks				
3.	Mortgage loans on real estate:				
э.	3.1 First liens			0	
	3.2 Other than first liens			0	
4.	Real estate:				
ч.	4.1 Properties occupied by the company (less \$				
	encumbrances)			0	
	4.2 Properties held for the production of income (less				
	\$			0	
	4.3 Properties held for sale (less \$				
				0	
F	Cash (\$6,947,462 ), cash equivalents				
э.					
	(\$	111 004 001		111 004 001	000 005 010
~	investments (\$				
6. -					
7.	Derivatives			4,775,944	
8.	Other invested assets				
9.	Receivables for securities				
10.	Securities lending reinvested collateral assets				
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)		0	2,502,342,040	
13.	Title plants less \$ charged off (for Title insurers				
	only)				
14.	Investment income due and accrued			23,539,042	
15.	Premiums and considerations:				
	15.1 Uncollected premiums and agents' balances in the course of collection .			0	
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)			0	
	15.3 Accrued retrospective premiums (\$				
	contracts subject to redetermination (\$ )			0	
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers			0	
	16.2 Funds held by or deposited with reinsured companies				
	16.3 Other amounts receivable under reinsurance contracts				
17.	Amounts receivable relating to uninsured plans				
	Current federal and foreign income tax recoverable and interest thereon			0	
18.2	Net deferred tax asset			3,315,157	1,201,225
19.	Guaranty funds receivable or on deposit				
20.	Electronic data processing equipment and software			0	
21.	Furniture and equipment, including health care delivery assets				
	(\$				
22.	Net adjustment in assets and liabilities due to foreign exchange rates			0	
23.	Receivables from parent, subsidiaries and affiliates				1,500,787
24.	Health care (\$				
25.	Aggregate write-ins for other than invested assets			3,040,557	3,076,864
26.	Total assets excluding Separate Accounts, Segregated Accounts and	0 500 451 740	200,060	2,532,241,779	2 524 060 525
07	Protected Cell Accounts (Lines 12 to 25) From Separate Accounts, Segregated Accounts and Protected Cell			2,332,241,779 .	2, 334, 900, 333
27.	Accounts Accounts, Segregated Accounts and Protected Cell		0		
28.	Total (Lines 26 and 27)	3,158,643,731	209,969	3,158,433,762	3,225,731,745
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page			0	0
1199.	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0		0	0
2501.	Funds held as collateral	2 040 000	-		
2502.	Accrued contractual fee income		0		
2502.	Receivable for marketing reallowance		0		
2503. 2598.	Summary of remaining write-ins for Line 25 from overflow page				
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	3,053,256	12,699	3,040,557	3,076,864

# ASSETS

# LIABILITIES, SURPLUS AND OTHER FUNDS

		1 Current Statement Date	2 December 31 Prior Year
	Aggregate reserve for life contracts \$	2,095,212,541	2,110,187,855
3.	Aggregate reserve for accident and health contracts (including \$		
4.	4.1 Life		
5.	Policyholders' dividends/refunds to members \$ and coupons \$ due and unpaid		
6.	and unpaid Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated amounts:		
	6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$ Modco)		
	6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$		
	Amount provisionally held for deferred dividend policies not included in Line 6 Premiums and annuity considerations for life and accident and health contracts received in advance less		
	Contract liabilities not included elsewhere:		
	9.1 Surrender values on canceled contracts         9.2 Provision for experience rating refunds, including the liability of \$		
	Service Act         9.3 Other amounts payable on reinsurance, including \$         .0 assumed and \$		
	ceded		
	Commissions to agents due or accrued-life and annuity contracts \$		
11. 12.	Commissions and expense allowances payable on reinsurance assumed		
	Transfers to Separate Accounts due or accrued (net) (including \$		
14.	allowances recognized in reserves, net of reinsured allowances)		
15.1 15.2	Current federal and foreign income taxes, including \$ on realized capital gains (losses)		2,053,90
16. 17.	Unearned investment income		
18.	Amounts held for agents' account, including \$		
19. 20.	Remittances and items not allocated Net adjustment in assets and liabilities due to foreign exchange rates		
21.	Liability for benefits for employees and agents if not included above		
22. 23.	Borrowed money \$and interest thereon \$		
24.	Miscellaneous liabilities: 24.01 Asset valuation reserve		
	24.02 Reinsurance in unauthorized and certified (\$		
	24.04 Payable to parent, subsidiaries and affiliates	1,213,672	
	24.05 Drafts outstanding		
	24.07 Funds held under coinsurance		
	24.08 Derivatives		
	24.10 Payable for securities lending		
25.	24.11 Capital notes \$ and interest thereon \$	2,986,954	2,946,03
26.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)	, , ,	2,164,458,57
27. 28.	From Separate Accounts Statement Total liabilities (Lines 26 and 27)		690,771,21 2,855,229,78
29.	Common capital stock		
30.	Preferred capital stock		
31. 32.	Aggregate write-ins for other than special surplus funds		
33.	Gross paid in and contributed surplus		
34. 35.	Aggregate write-ins for special surplus funds Unassigned funds (surplus)		
36.	Less treasury stock, at cost: 36.1 shares common (value included in Line 29 \$		
37.	36.2       shares preferred (value included in Line 30 \$ )	364,699,291	368,001,96
	Totals of Lines 29, 30 and 37	367,199,291	370,501,96
	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	3, 158, 433, 762	3,225,731,74
	DETAILS OF WRITE-INS Liability for funds held as collateral		
502. 503.	Unclaimed property		
.505. 2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)		
101.			
103.			
198. 199.	Summary of remaining write-ins for Line 31 from overflow page Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)	0	
401.		v	
402.			
403. 498.	Summary of remaining write-ins for Line 34 from overflow page		
499.	Totals (Lines 3401 through 3403 plus 1498)(Line 34 above)	0	

# SUMMARY OF OPERATIONS

			0	2
		1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
1.				
2.				
3.	Net investment income			
4.	Amortization of Interest Maintenance Reserve (IMR)			1,444,447
5.	Separate Accounts net gain from operations excluding unrealized gains or losses			
6.	Commissions and expense allowances on reinsurance ceded			
7.	Reserve adjustments on reinsurance ceded			
8.	Miscellaneous Income:			
	8.1 Income from fees associated with investment management, administration and contract	0 440 445	0 000 100	0.050.004
	guarantees from Separate Accounts	2,116,145		
	8.2 Charges and fees for deposit-type contracts			
	8.3 Aggregate write-ins for miscellaneous income	795,995	824,511	3,305,182
9.	Totals (Lines 1 to 8.3)	51,439,109	58,488,014	216,811,367
10.				
11.	Matured endowments (excluding guaranteed annual pure endowments)			
12.	Annuity benefits			
13.	Disability benefits and benefits under accident and health contracts			
14.	Coupons, guaranteed annual pure endowments and similar benefits			
15.	Surrender benefits and withdrawals for life contracts			
16.	Group conversions			
17.	Interest and adjustments on contract or deposit-type contract funds			
18.	Payments on supplementary contracts with life contingencies			
19.	Increase in aggregate reserves for life and accident and health contracts		(16,294,065)	(65,290,003)
20.	Totals (Lines 10 to 19)			
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct		<b>_</b>	
	business only)			
22.	Commissions and expense allowances on reinsurance assumed			
23.	General insurance expenses and fraternal expenses		2,965,412	
24.	Insurance taxes, licenses and fees, excluding federal income taxes			
25.	Increase in loading on deferred and uncollected premiums			
26.	Net transfers to or (from) Separate Accounts net of reinsurance		(23,258,002)	(76,609,193)
27.	Aggregate write-ins for deductions			0
28.	Totals (Lines 20 to 27)	46,174,247	49,301,935	185,296,492
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus		a	
	Line 28)		9, 186,079	
30.	Dividends to policyholders and refunds to members			
31.	Net gain from operations after dividends to policyholders, refunds to members and before federal		a	
	income taxes (Line 29 minus Line 30)			
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	1,465,834	1,849,939	5,320,850
33.	Net gain from operations after dividends to policyholders, refunds to members and federal income	0 700 000	7 000 440	00 101 005
	taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	3,799,028	7,336,140	
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital			
	gains tax of \$	740.000	000 007	4 000 000
	transferred to the IMR)		830,927	1,920,608
35.	Net income (Line 33 plus Line 34)	4,511,666	8,167,067	28,114,633
	CAPITAL AND SURPLUS ACCOUNT			
36.	Capital and surplus, December 31, prior year	370,501,960	343,271,691	343,271,691
37.	Net income (Line 35)			
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$	(173,569)		
39.	Change in net unrealized foreign exchange capital gain (loss)			
40.	Change in net deferred income tax	(166,184)	(183,195)	
41.	Change in nonadmitted assets		135,811	
42.	Change in liability for reinsurance in unauthorized and certified companies			
43.	Change in reserve on account of change in valuation basis, (increase) or decrease			
44.	Change in asset valuation reserve			
45.	Change in treasury stock			
46.	Surplus (contributed to) withdrawn from Separate Accounts during period			
47.	Other changes in surplus in Separate Accounts Statement			
48.	Change in surplus notes			
	Cumulative effect of changes in accounting principles			
49. 50		(3,311,739)		
50.	Capital changes:			
	50.1 Paid in			
	50.2 Transferred from surplus (Stock Dividend)			
EA	50.3 Transferred to surplus		·····	
51.			_	^
	51.1 Paid in		0	
	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		0	0
54.	Net change in capital and surplus for the year (Lines 37 through 53)	(3,302,669)	7,905,891	
55.	Capital and surplus, as of statement date (Lines 36 + 54)	367, 199, 291	351,177,582	370,501,960
	DETAILS OF WRITE-INS			-
	Contractual rider fee income			1,558,967
	Marketing reallowance			1,544,118
	Contractual annual maintenance and surrender charge fees			
	Summary of remaining write-ins for Line 8.3 from overflow page			(21,726)
	Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	795,995	824,511	3,305,182
08.398			021,011	
08.398 08.399				
08.398 08.399 2701.			I	
08.398 08.399 2701. 2702.				
08.398 08.399 2701. 2702. 2703.				
08.398 08.399 2701. 2702. 2703. 2798.	Summary of remaining write-ins for Line 27 from overflow page		0	0
08.398 08.399 2701. 2702. 2703. 2798. 2799.	Summary of remaining write-ins for Line 27 from overflow page Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	0 0	0 0	0 0
08.398 08.399 2701. 2702. 2703. 2798. 2799. 5301.	Summary of remaining write-ins for Line 27 from overflow page Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)		0 0	
08.398 08.399 2701. 2702. 2703. 2798. 2799. 5301. 5302.	Summary of remaining write-ins for Line 27 from overflow page Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)		0	
08.398 08.399 2701. 2702. 2703. 2798. 2799. 5301. 5302. 5303.	Summary of remaining write-ins for Line 27 from overflow page Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	00	0 0	
08.398 08.399 2701. 2702. 2703. 2798. 2799. 5301. 5302. 5303.	Summary of remaining write-ins for Line 27 from overflow page Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	00	0 0	

# **CASH FLOW**

	1 Current Year	2 Prior Year	3 Prior Year Ended
	To Date	To Date	December 31
Cash from Operations			
1. Premiums collected net of reinsurance			
2. Net investment income			
3. Miscellaneous income	2,921,882	3,040,412	12,552,150
4. Total (Lines 1 to 3)	51,383,413	60,702,709	227,478,519
5. Benefit and loss related payments			
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	0	0	0
9. Federal and foreign income taxes paid (recovered) net of \$			
gains (losses)	1,615,857	0	6,581,020
10. Total (Lines 5 through 9)	60,871,388	61,832,499	250,028,879
11. Net cash from operations (Line 4 minus Line 10)	(9,487,975)	(1,129,790)	(22,550,360
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds			
12.2 Stocks			
12.3 Mortgage loans			0
12.4 Real estate		0	
12.5 Other invested assets		0	0
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments			
12.7 Miscellaneous proceeds	0	0	C
12.8 Total investment proceeds (Lines 12.1 to 12.7)	.96.335.425		428.176.813
<ol> <li>Cost of investments acquired (long-term only):</li> </ol>			
13.1 Bonds	220 284 957	138 167 343	247 091 423
13.2 Stocks			
13.3 Mortgage loans			0
13.4 Real estate	0	0	0
13.5 Other invested assets			.0
13.6 Miscellaneous applications	(7,667,454)	(2,934,533)	13,623,260
13.7 Total investments acquired (Lines 13.1 to 13.6)	212,617,508	135,232,810	260,714,683
14. Net increase (or decrease) in contract loans and premium notes	(768,422)	(1,082,304)	(3,452,096
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(115,513,661)	(46,940,038)	170,914,226
Cash from Financing and Miscellaneous Sources 16. Cash provided (applied):			
16.1 Surplus notes, capital notes	0	.0	0
16.2 Capital and paid in surplus, less treasury stock		0	
16.3 Borrowed funds		0	
16.4 Net deposits on deposit-type contracts and other insurance liabilities			
16.5 Dividends to stockholders		.0	
16.6 Other cash provided (applied)	9,028,939	4,551,351	(1,541,121
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5	-,,	.,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
plus Line 16.6)	7,650,624	2,839,233	(7,878,941
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)	(117,351,012)	(45,230,595)	
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year			
19.2 End of period (Line 18 plus Line 19.1)	111,884,001	43,519,493	229,235,013
e: Supplemental disclosures of cash flow information for non-cash transactions:			
0.0001. Exchanges		1,598,502 2,999,997	

# **EXHIBIT 1**

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

		1	2	3
		Current Year To Date	Prior Year To Date	Prior Year Ended December 31
		TO Date	TO Date	December 51
1.	Industrial life			0
2.	Ordinary life insurance			0
3.	Ordinary individual annuities			
4.	Credit life (group and individual)			0
5.	Group life insurance			0
6.	Group annuities	8,775,308	7,884,478	
7.	A & H - group			0
8.	A & H - credit (group and individual)			0
9.	A & H - other			0
10.	Aggregate of all other lines of business	0	0	0
11.	Subtotal (Lines 1 through 10)	25,482,087		
12.	Fraternal (Fraternal Benefit Societies Only)			0
13.	Subtotal (Lines 11 through 12)	25,482,087		
14.	Deposit-type contracts	0	0	0
15.	Total (Lines 13 and 14)	25,482,087	28,354,275	97,433,638
	DETAILS OF WRITE-INS			
1001.				
1002.				
1003.				
1098.	Summary of remaining write-ins for Line 10 from overflow page	0	0	0
1099.	Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)	0	0	0

### Note 1 – Summary of Significant Accounting Policies

A. Accounting Practices

The financial statements of the Annuity Investors Life Insurance Company (the "Company") are presented on the basis of accounting practices prescribed or permitted by the Ohio Department of Insurance.

The Ohio Department of Insurance recognizes only statutory accounting practices prescribed or permitted by the State of Ohio for determining and reporting the financial condition and results of operations of an insurance company, for determining its solvency under the Ohio Insurance Law. The National Association of Insurance Commissioners' ("NAIC") Accounting Practices and Procedures Manual has been adopted as a component of prescribed or permitted practices by the State of Ohio.

In 2021 the Ohio Department of Insurance promulgated Ohio Administrative Code Section 3901-1-67, Alternative Derivative and Reserve Accounting Practices (OAC 3901-1-67), which constitutes a prescribed practice as contemplated by the NAIC SAP. The prescribed practice allows Ohio-domiciled insurance companies to utilize certain alternative derivative and reserve accounting practices for eligible derivative instruments and indexed products, respectively, in order to better align the measurement of indexed product reserves and the derivatives that hedge them. Effective January 1, 2022, the Company elected to apply OAC 3901-1-67 to its derivative instruments hedging equity indexed annuity products and equity indexed reserve liabilities.

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

Net Income		F/S Page	F/S Line #	(	03/31/2022	12/31/2021		
(1) State basis	XXX	XXX	XXX	\$	4,511,666	\$	28,114,633	
(2) State prescribed practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX					
OAC 3901-1-67:								
Derivative instruments	86	2, 4	7, 3		(2,628,190)		-	
Reserves for fixed indexed annuities	51	3, 4	1, 19		(874,304)		-	
Tax impact	101	2, 4	18.2, 32		45,468		-	
(3) State permitted practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX		-		-	
(4) NAIC SAP (1-2-3=4)	XXX	XXX	XXX	\$	7,968,692	\$	28,114,633	
Surplus								
(5) Statutory surplus state basis	XXX	XXX	XXX	\$	367,199,291	\$	370,501,960	
(6) State prescribed practices that increase/(decrease) NAIC SAP								
OAC 3901-1-67:								
Derivative instruments	86	2, 4	7, 3		(10,454,274)		-	
Reserves for fixed indexed annuities	51	3, 4	1, 19		2,543,198		-	
Tax impact	101	2, 4	18.2, 32		2,228,289		-	
(7) State permitted practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX		-		-	
(8) NAIC SAP (5-6-7=8)	XXX	XXX	XXX	\$	372,882,078	\$	370,501,960	

#### B, C & D - No significant changes.

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

There were no changes that were considered significant to the Company, except for the following.

Effective January 1, 2022, the Company elected to apply OAC 3901-1-67 to its derivative instruments hedging equity indexed annuity products and equity indexed annuity reserve liabilities. Under OAC 3901-1-67, derivative instruments will be carried on the statutory balance sheet at amortized cost with the initial hedge cost amortized over the term and asset payoffs realized at the end of the term being reported through net investment income rather than derivative instruments being carried at fair value with asset payoffs realized over the term through change in net unrealized capital gains and losses. Additionally, the cash surrender value reserves for equity indexed annuity products will only reflect index interest credits at the end of the crediting term as compared to partial index interest credits accumulating throughout the crediting term in increase in aggregate reserves for life and accident and health contracts. As a result of the Company's election to apply OAC 3901-1-67 as of January 1, 2022, total statutory admitted assets decreased \$8,929,241, total statutory liabilities decreased \$3,417,502 and total statutory capital and surplus decreased \$5,511,739. The following table summarizes the components of the total decrease in statutory surplus:

Change in reserve on account of change in valuation basis - fixed indexed annuity reserves	\$ 3,417,502
Change in net deferred income tax - reserve valuation change	2,182,821
Cumulative effect of changes in accounting principles - derivatives instruments, net of tax	(11,112,062)
Total decrease in statutory surplus	\$ (5,511,739)

### Note 3 – Business Combinations and Goodwill

Not applicable.

### Note 4 – Discontinued Operations

Not applicable.

#### Note 5 – Investments

A, B & C – No significant changes.

- D. Loan-Backed Securities
  - (1) The Company uses dealer-modeled prepayment assumptions for mortgage-backed and asset-backed securities at the date of purchase to determine the effective yields; significant changes in estimated cash flows from the original purchase assumptions are accounted for on a prospective basis.
  - (2) The Company does not currently hold any aggregate loan-backed securities with a recognized other-thantemporary impairment ("OTTI") in which the Company has the intent to sell or the inability or lack of intent to retain the investment in the security for a period of time to recover the amortized cost basis.
  - (3) The following table shows each security with a credit-related OTTI charge recognized during the period:

	Amortized Cost	Present Value of Projected	OTTI Charge Recognized in	Amortized Cost	Fair Value at	Date
CUSIP	Before OTT	Cash Flow s	ncome Statement	After OTT	Time of OTTI	Reported
05949CHM1	380,676	347,943	32,733	347,943	357,865	3/31/2022
57643MLZ5	54,956	53,283	1,673	53,283	53,735	3/31/2022
Total			\$ 34,406			

(4) The following table shows all loan-backed securities with an unrealized loss:

. The aggregate an	nount of unrealized losses:	
	1. Less than 12 months	\$13,175,729
	2. 12 months or longer	920,646

b. The aggregate related fair value of securities with unrealized losses: 1. Less than 12 months 2. 12 months or longer 7,578,767

- (5) Based on cash flow projections received from independent sources (which reflect loan to collateral values, subordination, vintage and geographic concentration), implied cash flows inherent in security ratings and analysis of historical payment data, management believes that the Company will recover its cost basis in all securities with unrealized losses at March 31, 2022. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.
- E. Dollar Repurchase Agreements and/or Securities Lending Transactions Not applicable.
- F. Repurchase Agreements Transactions Accounted for as Secured Borrowing Not applicable.
- G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing Not applicable.
- H. Repurchase Agreements Transactions Accounted for as a Sale Not applicable.
- I. Reverse Repurchase Agreements Transactions Accounted for as a Sale Not applicable.
- J. Real Estate Not applicable.

a.

- K. Low Income Housing Tax Credits Not applicable.
- L. Restricted Assets No significant change.
- M. Working Capital Finance Investments Not applicable.
- N. Offsetting and Netting of Assets and Liabilities Not applicable.
- O. 5GI Securities Not applicable.
- P. Short Sales Not applicable
- Q. Prepayment Penalty and Acceleration Fees

	Gene	ral Account	Separate Account			
(1) Number of CUSIPS		1		0		
(2) Aggregate amount of investment income	\$	63,750	\$	-		

R. Share of Cash Pool by Asset Type – Not applicable.

### Note 6 – Joint Ventures, Partnerships and Limited Liability Companies

Not applicable.

#### Note 7 – Investment Income

No significant change.

#### Note 8 – Derivative Instruments

No significant change.

#### Note 9 – Income Taxes

No significant change.

#### Note 10 - Information Concerning Parent, Subsidiaries, Affiliates and Other Related Parties

A.,B. & C.

The Company is an indirect subsidiary of Glidepath Holdings, Inc., which is a subsidiary of Massachusetts Mutual Life Insurance Company ("MMLIC"); 100% of the Company's outstanding common stock is directly owned by Great American Life Insurance Company ("GALIC"). See Schedule Y, Part 1, Organizational Chart.

The Company did not pay or receive federal income tax payments in cash to or from GALIC.

The Company did not receive capital contributions from GALIC.

- D. The Company reported \$1,213,672 due to the parent and affiliated companies. The terms of the agreement require that these amounts are settled within 90 days.
- E. Management or service contracts and all cost sharing arrangements including the Company:
  - (1) The Company has an agreement with Barings (an affiliate) which provides investment advisory services to the Company.
  - (2) The Company has an agreement with Great American Advisors, Inc. ("GAA"), a wholly owned subsidiary of GALIC, whereby GAA is the principal underwriter and distributor of the Company's variable contracts. The Company pays GAA for acting as underwriter under a distribution agreement.
  - (3) Certain administrative, management, accounting, data processing, collection, and investment services are provided under agreements between the Company and affiliates at charges not unfavorable to the Company or the affiliate.
- F. The Company has no material guarantees or undertakings for the benefit of an affiliate.
- G. The Company's outstanding shares are 100% owned by GALIC.
- H. The Company does not own shares of any upstream intermediate entity or its ultimate parent.
- I. The Company has no investment in a subsidiary.
- J. The Company did not recognize any impairment or write down for its investments in subsidiary, controlled or affiliated companies during the statement period.
- K. The Company has no investment in a foreign insurance subsidiary.
- L. The Company does not hold an investment in a downstream non-insurance holding company.
- M. Valuation of Subsidiary, Controlled and Affiliated Entities (excluding U.S. Insurance Entities) Not applicable.
- N. The Company has no investments in insurance subsidiary, controlled, or affiliated entities.
- O. Subsidiary, Controlled, and Affiliated Entities Loss Tracking Not applicable.

#### Note 11 - Debt

Not applicable.

#### <u>Note 12 - Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other</u> <u>Postretirement Benefit Plans</u>

A., B., C. & D.

The Company did not participate in a defined benefit plan.

E. Defined Contribution Plan

The Company participates in the retirement plans of GALIC. GALIC sponsors funded (qualified 401(k) thrift savings) and unfunded (nonqualified deferred compensation thrift savings) defined contribution plans for its employees and retirees. The qualified 401(k) thrift savings plan's net assets available for benefits were \$36,916,347 as of March 31, 2022 and \$34,792,881 as of December 31, 2021. The Company matches a percentage of employee contributions to the qualified 401(k) thrift savings plan. The Company's total matching thrift savings contributions included in general insurance expenses were \$92,079 for the three months ended March 31, 2022 and \$287,382 for the year ended December 31, 2021.

- F. The Company did not participate in multiemployer plans.
- G. The Company did not participate in consolidated or holding company plans.
- H. The Company does not accrue for postemployment benefits and compensated absences.
- I. The Company does not apply for a subsidy under the Medicare Part D under the Medicare Modernization Act.

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

No significant change.

#### Note 14 - Contingencies

No significant change.

#### <u>Note 15 – Leases</u>

Not applicable.

#### <u>Note 16 – Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With</u> <u>Concentrations of Credit Risk</u>

No significant change.

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

The Company has no reportable transactions.

### Note 18 - Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans

Not applicable.

#### Note 19 – Direct Premium Written/Produced by Managing General Agents/Third Party Administrators

Not applicable.

#### Note 20 - Fair Value Measurements

Α.

#### (1) Fair Value Measurements at Reporting Date

The Company has categorized its assets and liabilities measured at fair value or net asset value ("NAV") into the three-level fair value hierarchy as reflected in the following table. See item (4) below for a discussion of each of these three levels.

	Le	vel 1		Value Level 2 Level 3 (NAV)					Total	
Assets at fair value								,	-	
Bonds:										
Industrial and miscellaneous	\$	-	\$	135,443	\$	-	\$	-	\$	135,443
Total bonds		-		135,443		-		-		135,443
Non-affiliated common stock		124		-		-		-		124
Variable annuity assets (separate accounts)		-	6	26,191,983		-		-	62	26,191,983
Total assets accounted for at fair value/NAV	\$	124	\$ 6	26,327,426	\$	-	\$	-	\$ 62	26,327,550
Liabilities at fair value										
Variable annuity liabilities (separate accounts)	\$	-	\$ 63	26,191,983	\$	-	\$	-	\$ 62	26,191,983
Total liabilities at fair value	\$	-	\$ 63	26,191,983	\$	-	\$	-	\$ 62	26,191,983
			_							

(2) The Company does not have any Level 3 securities carried at fair value.

#### (3) Fair Value Recognition of Transfers Between Levels

The Company recognizes and records the transfer of securities into and out of Level 3 due to changes in availability of market observable inputs. There were no level 3 transfers during the reporting period.

#### (4) Inputs and Techniques Used in Estimating Fair Value

Level 1 - Quoted prices for identical assets or liabilities in active markets (markets in which transactions occur with sufficient frequency and volume to provide pricing information on an ongoing basis). The Company's Level 1 financial instruments consist primarily of publicly traded equity securities for which quoted market prices in active markets are available.

Level 2 - Quoted prices for similar instruments in active markets; quoted prices for identical or similar assets or liabilities in inactive markets (markets in which there are few transactions, the prices are not current, price quotations vary substantially over time or among market makers, or in which little information is released publicly); and valuations based on other significant inputs that are observable in active markets. Level 2 inputs include benchmark yields, reported trades, corroborated broker/dealer quotes, issuer spreads and benchmark securities. When non-binding broker quotes can be corroborated by comparison to similar securities priced using observable inputs, they are classified as Level 2.

Level 3 - Valuations derived from market valuation techniques generally consistent with those used to estimate the fair value of Level 2 financial instruments in which one or more significant inputs are unobservable or when the market for a security exhibits significantly less liquidity relative to markets supporting Level 2 fair value measurements. The unobservable inputs may include management's own assumptions about the assumptions market participants would use based on the best information available in the circumstances. The Company does not have any Level 3 assets or liabilities carried at fair value at March 31, 2022.

The Company's investment manager, Barings LLC ("Barings") is responsible for the valuation process and uses data from outside sources (including nationally recognized pricing services and broker/dealers) in establishing fair value. Valuation techniques utilized by pricing services and prices obtained from external sources are reviewed by Barings internal investment professionals who are familiar with the securities being priced and the markets in which they trade to ensure the fair value determination is representative of an exit price. To validate the appropriateness of the prices obtained, the investment manager considers widely published indices (as benchmarks), recent trades, changes in interest rates, general economic conditions and the credit quality of the specific issuers. In addition, Barings communicates directly with the pricing service regarding the methods and assumptions used in pricing, including verifying, on a test basis, the inputs used by the service to value specific securities.

- (5) Derivative Assets and Liabilities The Company's derivative assets are report at amortized cost.
- B. The Company has no additional fair value disclosures.
- C. The Company has categorized all the financial assets in the financial statements into the three-level fair value hierarchy as reflected in the following table. See item (4) above for a discussion of each of these three levels.

Type of Financial Instrument	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Financial Assets:							
Bonds:							
U.S. Government and		• • • • • • • •			•		•
agencies	\$ 415,141	\$ 418,591	\$ -	\$ 415,141	\$ -	\$ -	\$ -
All other governments	1,021,681	998,806	-	1,021,681	-	-	-
States, territories and							
possessions	42,374,159	41,408,246	-	42,374,159	-	-	-
Political subdivisions of							
states, territories	28,979,146	28,104,465	-	28,979,146	-	-	-
Special revenue	210,347,287	208,583,700	-	210,347,287	-	-	-
Industrial and miscellaneous	2,028,463,509	2,031,423,094	-	2,001,369,444	27,094,065	-	-
Hybrid Securities	8,005,538	10,008,117	-	7,977,288	28,250	-	-
Total bonds	\$ 2,319,606,461	\$ 2,320,945,019	\$ -	\$ 2,292,484,146	\$ 27,122,315	\$ -	\$ -
Non-affiliated common stock	124	124	124	-	-	-	-
Equity index call options	12,947,294	4.775.944	_	12,947,294	-	-	-
Variable annuity assets (separate							
accounts)	626,191,983	626,191,983	-	626,191,983	-	-	-
Cash, cash equivalents and							
short-term investments	111,884,001	111,884,001	111,884,001	-	-	-	-
Policy loans	46,422,285	46,422,285	-	-	46,422,285	-	-
Total financial assets/NAV	\$ 3,117,052,148	\$ 3,110,219,356	\$ 111,884,125	\$ 2,931,623,423	\$ 73,544,600	\$ -	\$ -

D. Not Practicable to Estimate Fair Value – The Company has no financial instruments that fall under this classification.

E. NAV Practical Expedient Investments - The Company has no financial instruments that fall under this classification.

### Note 21 - Other Items

No significant change.

### Note 22 – Events Subsequent/Other Items of Note

No significant change.

### Note 23 – Reinsurance

Not applicable.

### Note 24 – Retrospectively Rated Contracts & Contracts Subject to Redetermination

Not applicable.

### Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

Not applicable.

#### Note 26 – Intercompany Pooling Arrangements

Not applicable.

### Note 27 – Structured Settlements

Not applicable.

### Note 28 – Health Care Receivables

Not applicable.

### Note 29 – Participating Policies

Not applicable.

#### Note 30 – Premium Deficiency Reserves

Not applicable.

#### Note 31 – Reserves for Life Contracts and Annuity Contracts

No significant change.

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

No significant change.

### Note 33 – Analysis of Life Actuarial Reserves by Withdrawal Characteristics

Not applicable.

### Note 34 – Premiums and Annuity Considerations Deferred and Uncollected

No significant change.

## Note 35 – Separate Accounts

No significant change.

### Note 36 – Loss/Claim Adjustment Expenses

Not applicable.

## **GENERAL INTERROGATORIES**

## **PART 1 - COMMON INTERROGATORIES**

## GENERAL

1.1	Did the reporting entity experience any material transactions requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act?	Yes [ ] No [ X ]
1.2	If yes, has the report been filed with the domiciliary state?	Yes [ ] No [ ]
2.1	Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity?	Yes [ ] No [X]
2.2	If yes, date of change:	
3.1	Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer?	Yes [X] No []
3.2	Have there been any substantial changes in the organizational chart since the prior quarter end?	Yes [ ] No [X]
3.3	If the response to 3.2 is yes, provide a brief description of those changes.	
3.4	Is the reporting entity publicly traded or a member of a publicly traded group?	Yes [ ] No [X]
3.5	If the response to 3.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group.	
4.1	Has the reporting entity been a party to a merger or consolidation during the period covered by this statement?	Yes [ ] No [ X ]
4.2	If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation.	
	1     2     3       Name of Entity     NAIC Company Code     State of Domicile	
5.	If the reporting entity is subject to a management agreement, including third-party administrator(s), managing general agent(s), attorney- in-fact, or similar agreement, have there been any significant changes regarding the terms of the agreement or principals involved?	] No [ X ] N/A [ ]
6.1	State as of what date the latest financial examination of the reporting entity was made or is being made.	12/31/2016
6.2	State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released.	12/31/2016
6.3	State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date).	01/11/2018
6.4	By what department or departments?	
6.5	State of Ohio Department of Insurance Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments?Yes [	] No [ ] N/A [ X ]
6.6	Have all of the recommendations within the latest financial examination report been complied with?	] No [ ] N/A [ X ]
7.1	Has this reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period?	Yes [ ] No [X]
7.2	If yes, give full information:	
8.1	Is the company a subsidiary of a bank holding company regulated by the Federal Reserve Board?	Yes [ ] No [ X ]
8.2	If response to 8.1 is yes, please identify the name of the bank holding company.	
8.3	Is the company affiliated with one or more banks, thrifts or securities firms?	Yes [ X ] No [ ]
8.4	If response to 8.3 is yes, please provide below the names and location (city and state of the main office) of any affiliates regulated by a federal	

regulatory services agency [i.e. the Federal Reserve Board (FRB), the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Securities Exchange Commission (SEC)] and identify the affiliate's primary federal regulator.

1	2	3	4	5	6
Affiliate Name	Location (City, State)	FRB	000	FDIC	SEC
Barings LLC	Charlotte, NC	NO	NO	NO	YES
Great American Advisors	Cincinnati, OH	NO	NO	N0	YES
					l

# **GENERAL INTERROGATORIES**

		-		
9.1	<ul> <li>Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, of similar functions) of the reporting entity subject to a code of ethics, which includes the following standards?</li> <li>(a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between person relationships;</li> <li>(b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting (c) Compliance with applicable governmental laws, rules and regulations;</li> <li>(d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and</li> <li>(e) Accountability for adherence to the code.</li> <li>If the response to 9.1 is No, please explain:</li> </ul>	nal and professional	Yes [	X ] No [ ]
9.2	Has the code of ethics for senior managers been amended?		Yes [	] No [ X ]
9.21	If the response to 9.2 is Yes, provide information related to amendment(s).			
9.3 9.31	Have any provisions of the code of ethics been waived for any of the specified officers? If the response to 9.3 is Yes, provide the nature of any waiver(s).		Yes [	] No [X]
	FINANCIAL			
10.1 10.2	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement? If yes, indicate any amounts receivable from parent included in the Page 2 amount:			
	INVESTMENT			
11.1	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or other	wise 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:	2		
13.	Amount of real estate and mortgages held in other invested assets in ochedule DA.			
14.1	Does the reporting entity have any investments in parent, subsidiaries and affiliates?			
14.2	If yes, please complete the following:		100 [	
		1 Prior Year-End Book/Adjusted Carrying Value	В	2 urrent Quarter look/Adjusted arrying Value
	Bonds\$	0	\$	
	Preferred Stock			
	Common Stock		\$	
	Short-Term Investments\$			
	Mortgage Loans on Real Estate\$			
	All Other	0	\$	
14 07	Total Investment in Derent Subsidiaries and Affiliates (Subtetal Lines 14.01 to 14.06)	0	¢.	

14.27	Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26)\$	\$ 	 0
14.28	Total Investment in Parent included in Lines 14.21 to 14.26 above\$	\$ 	 
	Has the reporting entity entered into any hedging transactions reported on Schedule DB? If yes, has a comprehensive description of the hedging program been made available to the domiciliary state?		
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\$	 	 0

16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2..... ...\$ .... ....0 16.2 Total book adjusted/carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2 ......\$ ..\$ .

0

16.3 Total payable for securities lending reported on the liability page. ....

# **GENERAL INTERROGATORIES**

17. 17.1	offices, vaults or safet custodial agreement v Outsourcing of Critical	y deposit boxes, v vith a qualified ba I Functions, Custo	- Special Deposits, real estate, mo were all stocks, bonds and other s nk or trust company in accordanc odial or Safekeeping Agreements requirements of the NAIC Financ	ecurities, owned e with Section 1 of the NAIC Fina	l throughout t , III - General ancial Condition	he current year Examination C on Examiners H	held pursuant to a onsiderations, F. landbook?	Yes	[X]	No [ ]
		1				2				
	Daula of New York Mal	Name of Cus	todian(s)	1 W-11 04	New Verde A	Custodian Addr	ess			
	Bank of New York Mel	10n		1 Wall Street	, New York, N	IY 10286				
17.2	For all agreements that location and a comple		with the requirements of the NAIC	Financial Condi	tion Examine	rs Handbook, p	rovide the name,			
	1		2			3				
	Name(	(s)	Location(s)		(	Complete Expla	nation(s)			
17.3 17.4	Have there been any o If yes, give full informa		g name changes, in the custodian eto:	(s) identified in 7	7.1 during the	e current quarte	er?	Yes	[]	No [ X ]
	1 Old Custo	odian	2 New Custodian	Date of	3 of Change		4 Reason			
17.5	make investment deci	sions on behalf o ccess to the inves	nvestment advisors, investment m f the reporting entity. For assets th tment accounts"; "handle secur	nat are manageo rities"]						
			1 n or Individual	2 Affiliati	on					
	Barings LLC			A						
	17.5097 For those firm	ns/individuals liste	ed in the table for Question 17.5, d more than 10% of the reporting e	do any firms/indi	 /iduals unaffil assets?	iated with the re	eporting entity (i.e.	Yes	[]	] No [ X ]
			d with the reporting entity (i.e. des nt aggregate to more than 50% of					Yes	[]	] No [ X ]
17.6	For those firms or indi table below.	viduals listed in th	ne table for 17.5 with an affiliation	code of "A" (affi	iated) or "U" (	(unaffiliated), pr	ovide the information for t	the		
	1		2			3	4			5
	Central Registration								Mana	stment gement eement
	Depository Number		Name of Firm or Individual			Identifier (LEI)				) Filed
		-					SEC			
18.1 18.2	Have all the filing requ		urposes and Procedures Manual							
19.	a. Documentation security is not a b. Issuer or obligo c. The insurer has	necessary to per available. or is current on all s an actual expect	eporting entity is certifying the folk mit a full credit analysis of the sec contracted interest and principal p tation of ultimate payment of all co 5GI securities?	curity does not e payments. ontracted interes	xist or an NAI t and principa	C CRP credit ra	ating for an FE or PL	Yes	[]	No [ X ]
20.	<ul> <li>a. The security was purchased prior to January 1, 2018.</li> <li>b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.</li> <li>c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insurer and available for examination by state insurance regulators.</li> <li>d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO.</li> </ul>								[ ]	No [ X ]
21.	FÉ fund:		registered private fund, the report	ting entity is cert	ifying the follo	wing elements	of each self-designated			
	b. The reporting er		to January 1, 2019.							
	January 1, 2019 d. The fund only o	d a public credit ra ). r predominantly h	bital commensurate with the NAIC ating(s) with annual surveillance as olds bonds in its portfolio.	ssigned by an N	AIC CRP in it	s legal capacity				
	January 1, 2019 d. The fund only or e. The current repo in its legal capa	d a public credit ra ). r predominantly h orted NAIC Desig city as an NRSRO	ating(s) with annual surveillance as olds bonds in its portfolio. nation was derived from the public	ssigned by an N c credit rating(s)	AIC CRP in it with annual s	s legal capacity				

# **GENERAL INTERROGATORIES**

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

Life and 1.	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 Amount	
	1.1 Long-Term Mortgages In Good Standing	Anount	
	1.11 Farm Mortgages	\$	
	1.12 Residential Mortgages	.\$	
	1.13 Commercial Mortgages	.\$	
	1.14 Total Mortgages in Good Standing	.\$	0
	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	.\$	0
	1.4 Long-Term Mortgage Loans in Process of Foreclosure		
	1.41 Farm Mortgages	<u>.</u> \$	
	1.42 Residential Mortgages	.\$	
	1.43 Commercial Mortgages	\$	
	1.44 Total Mortgages in Process of Foreclosure	<u>\$</u>	0
1.5	Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)	.\$	0
1.6	Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter		
	1.61 Farm Mortgages	\$	
	1.62 Residential Mortgages	<u>.</u> \$	
	1.63 Commercial Mortgages	\$	
	1.64 Total Mortgages Foreclosed and Transferred to Real Estate	.\$	0
2.	Operating Percentages:		
	2.1 A&H loss percent		%
	2.2 A&H cost containment percent		%
	2.3 A&H expense percent excluding cost containment expenses		%
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 [ ]	
5.1	al Benefit Societies Only: 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 [	1
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?		
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

			Showing All New Reinsural	nce Treaties	- Current Yea	r to Date			
1	2	3	Showing All New Reinsura 4				8	9 Certified	10 Effective Date of
NAIC Company Code	ID	Effective		Domiciliary	Type of Reinsurance Ceded	Type of Business		Reinsurer Rating	Certified Reinsurer
Code	Number	Date	Name of Reinsurer	Jurisdiction	Ceded	Ceded	Type of Reinsurer	(1 through 6)	Rating
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## STATEMENT AS OF MARCH 31, 2022 OF THE ANNUITY INVESTORS LIFE INSURANCE COMPANY **SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS**

		1 Active	Life Co 2	ntracts 3	Direct Bus 4 Accident and Health Insurance Premiums, Including Policy,	5	6 Total	7
	States, Etc.	Status (a)	Life Insurance Premiums	Annuity Considerations	Membership and Other Fees	Other Considerations	Columns 2 Through 5	Deposit-Typ Contracts
1.	AlabamaAL	L	Fieliniums		and Other Tees	Considerations		Contracts
2.	Alaska AK	L						
3.	Arizona AZ	L						
4.	Arkansas AR	Ļ						
5.	California CA	È					3,025,535	
6. 7	Colorado	È						
7. 8.	Connecticut CT Delaware DF							
o. 9.	Delaware DE District of Columbia DC							
0.	Florida						2.213.062	
0. 1.	Georgia							
2.	Hawaii HI							
3.	Idaho ID							
4.	Illinois	Ĺ						
5.	Indiana IN	L					105,848	
6.	Iowa IA	L					146,638	
7.	Kansas KS	L						
8.	Kentucky KY	L						
9.	Louisiana LA	L						
0.	Maine	L						
1.	Maryland MD	L		73,064			73,064	
2.	Massachusetts	<u>L</u>						
3.	Michigan MI	<u>L</u>						
4. 5	Minnesota MN	L						
5. c	Mississippi MS	L						
6. 7	Missouri MO	L						
7. 8.	Montana MT Nebraska NE	L						
8. 9.	Nebraska NE Nevada NV	⊢ I						
9. 0.	New Hampshire NH	⊢ I						
0. 1.	New Jersey NJ	⊾ I						
2.	New Mexico	<u>+</u> I						
3.	New York		I				16,762	
4.	North Carolina	L						
5.	North Dakota	L						
6.	Ohio OH	L		1,541,554			1,541,554	
7.	Oklahoma OK	L						
8.	Oregon OR	L						
9.	Pennsylvania PA	L						
0.	Rhode Island	Ļ						
1.	South Carolina	Ļ						
2.	South Dakota SD	Ļ						
3. ⊿	Tennessee	Ļ	·					
4. 5	Texas			2,370,654			2,370,654	
	UtahUT VermontVT	LN	+					
	VirginiaVI	IN I	·					
	Washington	L						
	West Virginia	⊾ I						
	Wisconsin	L						
1.	Wyoming	L						
2.	American Samoa AS	N.		0				
3.	Guam GU	N		0		"	0	
4.	Puerto Rico PR	N.		0			0	
	U.S. Virgin Islands VI	N.						
6.	Northern Mariana Islands MP	N		0			0	
7.	Canada CAN	N		0			0	
8.	Aggregate Other Aliens OT	XXX			0	0		
9.	Subtotal	XXX	0	25,482,087	0	0		
0.	Reporting entity contributions for employee benefits	~~~					^	
1.	plans Dividends or refunds applied to purchase paid-up	XXX	-				0	
	additions and annuities	XXX	. <b>.</b>				0	
2.	Dividends or refunds applied to shorten endowment						-	
3	or premium paying period.	XXX					0	
3.	Premium or annuity considerations waived under disability or other contract provisions				l		n	L
4.	Aggregate or other amounts not allocable by State	XXX	0	0	0	0	0	
5.	Totals (Direct Business)	XXX	0			0		
6.	Plus Reinsurance Assumed	XXX					0	
7	Totals (All Business)	XXX	0		0	0		
8.	Less Reinsurance Ceded	XXX					0	
9.	Totals (All Business) less Reinsurance Ceded	XXX	0	25,482,087	0	0	25,482,087	
	DETAILS OF WRITE-INS							
01.	Other Alien	XXX		600				
02.		XXX						
03.	Summary of remaining write ine for Line 59 from	XXX						
<del>ປ</del> ຊ.	Summary of remaining write-ins for Line 58 from overflow page	xxx	0	0	0	Λ	0	
99	Totals (Lines 58001 through 58003 plus			0	0	0	0	
50.	58998)(Line 58 above)	XXX	0	600	0	0	600	
01.		XXX						
02.		XXX						
)3.		XXX						
98.	Summary of remaining write-ins for Line 94 from							
20	overflow page	XXX	0	0	0	0	0	
99.	Totals (Lines 9401 through 9403 plus 9498)(Line 94 above)	XXX	0	0	0	0	0	
		~~~	0	U	0	0	U	l

L - Licensed or Chartered - Licensed Insurance carrier or domiciled RRG......
 E - Eligible - Reporting entities eligible or approved to write surplus lines in the state......
N - None of the above - Not allowed to write business in the state......

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

	<u>Federal Tax ID</u>	NAIC Co Code	<u>State of Domicile</u>
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY Direct & Indirect Owned Subsidiaries:	04-1590850	65935	Massachusetts
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Mezzanine Investor III, LLC	06-1041383		Delaware
CML Special Situations Investor 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 I I LLC	None		Delaware
MM Global Capabilities I II 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
JFIN Parent LLC	None		Delaware
Jefferies Finance LLC JFIN GP Adviser LLC	27-0105644		Delaware Delaware
JFIN GP Adviser LLC JFIN Fund III LLC	None		
JEIN FUND III LLC Jefferies Credit Partners LLC	None None		Delaware Delaware
APEX Credit Partners LLC	None		Delaware
APEX Credit Partners LLC Jefferies Credit Management LLC	None		Delaware
JFAM GP LLC	None		Delaware
JFAM GP LLC JFAM GP LP	None		Delaware
JI ANI OF LF	INUTIC		Delawale

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
Jefferies Direct Lending Fund C LP	None		Delaware
Jefferies DLF C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund C SPE LLC	None		Delaware
Jefferies Private Credit BDC Inc.	None		Maryland
Jefferies Senior Lending LLC	None		Delaware
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
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
Apex Credit Holdings LLC	None		Delaware
JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2013 Ltd.	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands
JFIN CLO 2014-II Ltd.	None		Cayman Islands
JFIN CLO 2015 Ltd.	None None		Cayman Islands
JFIN CLO 2015-II Ltd. JFIN CLO 2016 Ltd.			Cayman Islands Cayman Islands
JFIN CLO 2016 Ltd. JFIN CLO 2017 Ltd.	None		Cayman Islands Cayman Islands
JEIN CLO2017 Ltd.	None		Cayman Islands

	<u>Federal Tax ID</u>	NAIC Co Code	<u>State of Domicile</u>
JFIN CLO 2017 II Ltd.	None		Cayman Islands
	86-2294635		Delaware
	13-1935920	63312	Ohio
	31-1422717		Kentucky
	31-1021738	93661	Ohio
	31-1395344	,	Ohio
	26-3260520		Ohio
	45-0252531	67083	Ohio
1 5	None	07005	Delaware
	04-1590850		Delaware
11	None		Delaware
6	None		United Kingdom
	None		Cayman Islands
	26-0073611		Delaware
	90-1005837		Delaware
	36-4785301		Delaware
	38-3969560		Delaware
	32-0489588		Delaware
	35-2590691		Delaware
	32-0546197		Delaware
	82-5335801		Delaware
	83-3722640		Delaware
	None		Delaware
	None		Delaware
	None		Delaware
	04-2443240		Massachusetts
	04-3548444		Massachusetts
	04-3341767		Massachusetts
	None		Delaware
	None		New York
1	None		Delaware
	04-3356880		Massachusetts
	None		Delaware
	46-3238013		Delaware
	06-1563535		Connecticut
	04-1590850		Delaware
	04-1590850		Delaware
While I made Equity I and invotor EEC	07-1320030		Delaware

	Federal Tax ID <u>NAIC Co Code</u>	State of Domicile
MM Private Equity Intercontinental LLC	04-1590850	Delaware
Pioneers Gate LLC	45-2738137	Delaware
MassMutual Holding LLC	04-2854319	Delaware
Fem Street LLC	37-1732913	Delaware
Sleeper Street LLC	None	Delaware
Haven Life Insurance Agency, LLC	46-2252944	Delaware
MassMutual Assignment Company	06-1597528	North Carolina
MassMutual Capital Partners LLC	04-1590850	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 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
Open Alternatives LLC	None	Delaware
MM Catalyst Fund LLC	None	Delaware
MM Rothesay Holdco US LLC	04-1590850	Delaware
Rothesay Limited	None	United Kingdom
Rothesay Life Plc	None	United Kingdom
Rothesay MA No.1 Limited	None	United Kingdom
Rothesay MA No.2 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	United Kingdom
Rothesay Pensions Management Limited	None	United Kingdom
Rothesay Asset Management UK Limited	None	United Kingdom
Rothesay Asset Management Australia Pty Ltd	None	Australia
Rothesay Asset Management US LLC	None	Delaware
MML Investors Services, LLC	04-1590850	Massachusetts
MML Insurance Agency, LLC	04-1590850	Massachusetts
MMLISI Financial Alliances, LLC LifeScore Labs, LLC	41-2011634 47-1466022	Delaware Massachusetts
MM Asset Management Holding LLC	45-4000072	Delaware

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
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	98-0457456		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
Barings GmbH	None		Germany
Barings Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Netherlands B.V.	None		Netherlands
Barings Real Estate UK Holdings Limited	None		Delaware
Barings (U.K.) Limited	98-0432153		United Kingdom
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom
Barings Global Advisors Limited	98-1012393		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring International Investment Management Holdings	98-0457587		United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576		United Kingdom
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland
Baring Asset Management Switzerland Sarl	None		Switzerland
Baring Fund Managers Limited	98-0497550 98-0457586		France United Kingdom
Baring Fund Managers Limited BCGSS 2 GP LLP			United Kingdom
BCGSS 2 GP LLP Baring Investment Services Limited	None 98-0457578		United Kingdom United Kingdom
Barings Core Fund Feeder I GP S.à.r.1.	98-0457578 None		United Kingdom Luxembourg
Darings Core Fund Feder FOF S.a.r.i.	inome		Luxembourg

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile	
Barings Investment Fund (LUX) GP S.àr.l.	None		Luxembourg	
Barings BME GP S.à.r.l.	None		United Kingdom	
Barings GPC GP S.a.r.l.	None		Luxembourg	
Barings European Core Property Fund GP Sà.r.1	None		United Kingdom	
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg	
GPLF4(S) GP S.àr.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	
Aland Royalty Holdings LP	None		Delaware	
GASL Holdings LLC	None		Delaware	
Intermodal Holding II LLC	46-2344300		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	
Teaktree Acquisition, LLC	None		Delaware	
Techquity, LP	None		Delaware	
Validus Holding Company LLC	46-0687392		Delaware	
VGS Acquisition Holding, LLC	None		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 Hotel Opportunity Venture I GP, LLC	None		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 Global Energy Infrastructure Advisors, LLC	None		Delaware	
Barings Global Real Assets Fund GP, LLC	None		Delaware	

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
Barings GPSF	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund Management II, LLC	None		Delaware
Barings North American Private Loan Fund Management III, 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
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	None		Delaware
CHY Venture GP LLC	None		Delaware
CREF X GP LLC	None		Delaware
Great Lakes III GP, LLC	04-1590850		Delaware
Lake Jackson LLC	None		Delaware
Loan Strategies Management LLC	04-1590850		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
Somerset Special Opportunities Management LLC	04-1590850		Delaware
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
MML Mezzanine Investor II, LLC	04-1590850		Delaware
MML Mezzanine Investor III, LLC	04-1590850		Delaware
MassMutual External Benefits Group LLC Other Affiliates & Funds:	27-3576835		Delaware
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
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

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
Barings Affordable Housing Mortgage Fund II LLC	61-1902329		Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663		Delaware
Barings Asset-Based Income Fund (US) LP	36-4868350		Delaware
Barings Emerging Markets Corporate Bond Fund*	None		Ireland
Barings European Real Estate Debt Income Fund	None		Luxembourg
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Barings US High Yield Bond Fund*	None		Ireland
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-1	None		Cayman Islands
Babson CLO Ltd. 2014-1	None		Cayman Islands
Babson CLO Ltd. 2015-1	None		Cayman Islands
Babson CLO Ltd. 2015-II	None		Cayman Islands
Babson CLO Ltd. 2016-1	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 Global Em. Markets Equity Fund	82-5330194		North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands
Barings Global Inv. Grade Strat Fund	None		Ireland
Barings Global Real Assets Fund LP	82-3867745		Delaware

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
Barings Global Special Situations Credit Fund 3	None		Ireland
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
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 2018-I	None		Cayman Islands
Barings Middle Market CLO 2019-I	None		Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604		Cayman Islands
Barings North American Private Loan Fund LP	38-4010344		Delaware
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
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
GIA EU Holdings - Emerson JV Sarl	None		Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-404	1012	New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059		New York
KKR-MM Vector LP	82-1512591		Delaware
Marco Hotel LLC	46-4255307		Delaware
Miami Douglas One GP LLC*	04-1590850		Delaware
Miami Douglas Two GP LLC*	04-1590850		Delaware
Miami Douglas One LP*	04-1590850		Delaware
Miami Douglas Two LP*	04-1590850		Delaware
Miami Douglas Three MM LLC	04-1590850		Delaware

	<u>Federal Tax ID</u>	NAIC Co Code	<u>State of Domicile</u>
MM BIG Peninsula Co-Invest Member LLC	87-4021641		Delaware
NYDIG Digital Assets Fund II LP	85-3886824		Delaware
HB Naples Golf Owner LLC	45-3623262		Delaware
MM CM Holding LLC	None		Delaware
MM Debt Participations LLC	81-3000420		Delaware
RB Apartments LLC	81-5000420		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
SouthPointe Industrial LLC	04-1590850		Delaware
Ten Fan Pier Boulevard LLC	35-2553915		Delaware
Tower Square Capital Partners III, L.P.	41-2280127		Delaware
	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P. Trailside MM Member LLC*	04-1590850		Delaware
Washington Gateway Two LLC*	83-1325764		Delaware
Washington Gateway Three LLC*	32-0574045		Delaware
West 46 <sup>th</sup> Street Hotel LLC	05-1590850		Delaware
Barings Affiliates & Funds:			
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:			
50 Liberty LLC*	36-4823011		Delaware
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
Comerstone 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
CREA Madison Member LLC	81-0890084		Delaware
Danville Riverwalk Venture. LLC	82-2783393		Delaware
Euro Real Estate Holdings LLC	04-1590850		Delaware
Fan Pier Development LLC*	20-3347091		Delaware

	<u>Federal Tax ID</u>	NAIC Co Code	State of Domicile
GIA EU Holdings LLC	04-1590850		Delaware
Landmark Manchester Holdings LLC	81-5360103		Delaware
MM Brookhaven Member LLČ	04-1590850		Delaware
MM East South Crossing Member LLC	04-1590850		Delaware
MM Horizon Savannah Member LLC*	04-1590850		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
PACO France Logistics LLC	04-1590850		Delaware
Portland 400 Sixth Manager LLC	82-3393166		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Sawgrass Village Shopping Center LLC*	27-2977720		Delaware
STOA Holding LLC	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Twenty Two Liberty LLC*	35-2484550		Massachusetts
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
MassMutual Premier Funds:			
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Select Funds:			
MassMutual Select Diversified Value Fund	01-0821120		Massachusetts
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:	16 10 550 56		
MML Series International Equity Fund	46-4257056		Massachusetts

MML Series Investment Funds II:	<u>Federal Tax ID</u> <u>NAIC Co</u>	Code State of Domicile
	47 2517222	
MML Series II Asset Momentum Fund	47-3517233	Massachusetts
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
MML Series II Equity Rotation Fund	47-3544629	Massachusetts
MML Series II Special Situations Fund	47-3559064	Massachusetts
MassMutual RetireSMART Funds:		
MassMutual RetireSMART 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

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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
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0435	Massachusetts Mut Life Ins Co		04-1590850	3848388			(MLIC)	MA		Company	Ownership.	100.000	MILIC		
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0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company	CT	IA	Company	Ownership		. MMLIC		
0435	Massachusetts Mut Life Ins Co	70416	43-0581430				MML Bay State Life Insurance Company	CT	IA	C.M. Life Insurance Company	Ownership		. MMLIC		
0000			06-1041383				CML Mezzanine Investor III, LLC	DE	NIA	C.M. Life Insurance Company	Ownership		. MMLIC		
0000							CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership				
										Massachusetts Mutual Life Insurance					
0000							CML Global Capabilities LLC	DE	NIA	Company	Ownership		MMLIC		
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0000							MM Global Capabilities I LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
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0000							MM Global Capabilities II LLC	DE	NIA	Company	Ownership		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MM Global Capabilities III LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance	enner ennp				
0000							MML Special Situations Investor LLC	DE	NIA	Company	Ownership.		MILIC		
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0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Company	Ownership		. MMLIC		
			47-5322979				Timberland Forest Holding LLC	DE	NIA	C.M. Life Insurance Company	Influence	0.000	. MILIC		
			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		. MMLIC		
0000							Lyme Adirondack Timberlands I, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership				
0000							Lyme Adirondack Timberlands II, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership		. MMLIC		
							Lyme Adirondack Timber Sales, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership.		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
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0000	1		04-1590850				MSP-SC, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	1	
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							EM Opportunities LLC		NIA	Company	Ownership		. MWLIC	-	
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										Massachusetts Mutual Life Insurance	1				1
			04-1590850				Insurance Road LLC	DE	NIA	Company	Ownership		. MMLIC	.	
			04-1590850				MassMutual Trad Private Equity LLC	DE	NIA	Insurance Road LLC	Ownership		MMLIC		
			04-1590850				MassMutual Intellectual Property LLC	DE	NIA	Insurance Road LLC	Ownership		MMLIC		
0000							Trad Investments   LLC	DE	NIA	Insurance Road LLC	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
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0000			07.0405044				JFIN Parent LLC	DE	NIA	Company	Ownership		. MMLIC		
0000			27-0105644				Jefferies Finance LLC	DE	NIA	JFIN Parent LLC	Ownership		. MMLIC		
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0000			86-2294635 13-1935920				Glidepath Holdings Inc Great American Life Insurance Company	DE 0H	UDP	Glidepath Holdings Inc.	Ownership		MMLIC		

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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 Hame		31-1422717	ROOD	011	internationaly	AAG Insurance Agency, LLC	KY	NIA	Great American Life Insurance Company		100.000	MLIC	(100/110)	4
											Ownership				
0000			31-1021738				Annuity Investors Life Insurance Company	0H	RE	Great American Life Insurance Company	Ownership	100.000	. MMLIC		
0000			31-1395344				Great American Advisors, LLC	0H	NIA	Great American Life Insurance Company	Ownership		MMLIC		
0000			26-3260520				Manhattan National Holding LLC	0H	NIA	Great American Life Insurance Company	Ownership.		MMLIC		
0000		67083	45-0252531				Manhattan National Life Insurance Company	OH	IA	Manhattan National Holding LLC	Ownership	100.000	MMLIC		
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0000							MassMutual Mortgage Lending LLC	DE	NIA	Company	Ownership	100,000	MILIC		
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0000							JFIN GP Adviser LLC	DE	NIA	Jefferies Finance LLC	Ownership		. MMLIC		
0000							JFIN Fund III LLC	DE	NIA	Jefferies Finance LLC	Ownership				
							Jefferies Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC		
0000							Apex Credit Partners LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
							Jefferies Credit Management LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC	.	
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0000							JFAM GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MILIC	.	
0000							JFAM GP LP	DE	NIA	Jefferies Credit Partners LLC	Ownership		. MMLIC		
0000							Jefferies Direct Lending Fund C LP	DE	NIA	JFAM GP LP	Ownership	100.000	MMLIC		
							Jefferies DLF C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund C LP	Ownership		MMLIC	. [	
							Jefferies Direct Lending Fund C SPE LLC	DE	NIA.	Jefferies DLF C Holdings LLC	Ownership		MMLIC		
							Jefferies Senior Lending LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MML IC		
0000							JFIN Revolver Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	. MMLIC		
0000							JFIN Revolver Holdings II LLC	DE	NIA	Jefferies Finance LLC	Ownership		. MMLIC		
							JFIN Revolver Holdings IV LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Co-Issuer Corporation	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
							JFIN Europe GP. S.a.r.I.	LUX	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							Jefferies Finance Europe, S.L.P.		NIA	JFIN Europe GP, S.a.r.I.		100.000	MMLIC		
								LUX			Ownership				••
							Jefferies Finance Europe, SCSp	LUX	NIA	JFIN Europe GP, S.a.r.I.	Ownership	100.000	. MMLIC		
0000							Jefferies Finance Business Credit LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC		
0000							JFIN Business Credit Fund   LLC	DE	NIA	Jefferies Finance Business Credit LLC	Ownership.		MMLIC		
							JFIN Funding 2021 LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC		
							JFIN High Yield Investments LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN LC Fund LLC			Jefferies Finance LLC		100.000	MMLIC		
								DE	NIA		Ownership				
0000							Jefferies Private Credit BDC Inc	MD	NIA	Jefferies Finance LLC	Ownership	100.000	. MMLIC		
0000							JFIN Revolver CLO 2017 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership				
							JFIN Revolver CLO 2017-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	. MMLIC		
0000							JFIN Revolver CLO 2017-III Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
							JFIN Revolver CLO 2018 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership.	100.000	MML IC		1
0000							JFIN Revolver CLO 2019 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	- [	
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0000							JFIN Revolver CLO 2019-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	. MMLIC		
0000							JFIN Revolver CLO 2020 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
							JFIN Revolver CLO 2021-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership		. MMLIC		
							JFIN Revolver CLO 2021-V Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership		MMLIC		
							JFIN Revolver CLO 2022-11 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
							JFIN Revolver Fund, L.P.	DE	NIA	Jefferies Finance LLC	Ownership		MIC		
0000							JFIN Revolver Funding 2021 Ltd.	DE	NIA	Jefferies Finance LLC	Ownership		. MMLIC		
0000							JFIN Revolver Funding 2021 III Ltd	DE DE	NIA	Jefferies Finance LLC	Ownership		. MMLIC		
0000							JFIN Revolver Funding 2021 IV Ltd.	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC	[	
							JFIN Revolver Funding 2022-1 Ltd.	BMU	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		1
							Apex Credit Holdings LLC	DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		1
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0000							JFIN CLO 2012 Ltd.	CYM	NIA	Apex Credit Partners LLC	Owner ship			[	
0000							JFIN CLO 2013 Ltd	<u>C</u> YM	NIA	Apex Credit Partners LLC	Ownership	100.000	. MMLIC		
							JFIN CLO 2014 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
							JFIN CLO 2015 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership.	100.000	MMLIC		1
							JFIN CLO 2015-11 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	85.000	MMLIC		
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							JFIN CLO 2016 Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	. MMLIC		

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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		ernational)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
0000	Gloup Name	Coue	Number	ROOD		fillational)	JFIN CLO 2017 Ltd.	CYM	NIA	Apex Credit Partners LLC	Owner ship	100.000	MILIC	(165/140)	/
							JFIN CLO 2017 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC		
							JFIN 6L0 2017-11 Ltd		NIA	Massachusetts Mutual Life Insurance	owner snip	100.000	. WWLIG		
0000			04-1590850				MM Copper Hill Road LLC	DE	NIA	Company	Ownership		MMLIC		
			04 1000000					DL		Massachusetts Mutual Life Insurance	owner amp				
0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Ownership.		MIC		
0000							MM Direct Private Investments UK Limited	GBR	NIA	MM Direct Private Investments Holding LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance		1	· · · · · · · · · · · · · · · · · · ·		
0000							MM Investment Holding	CYM	NIA	Company	Ownership		MMLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MM Investment Holding	Ownership				
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
0000			90-1005837				MMAF Equipment Finance LLC 2013-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	. MMLIC		
			36-4785301				MMAF Equipment Finance LLC 2014-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			38-3969560				MMAF Equipment Finance LLC 2015-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
			32-0489588				MMAF Equipment Finance LLC 2016-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			35-2590691				MMAF Equipment Finance LLC 2017-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			82-5335801				MMAF Equipment Finance LLC 2018-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
			83-3722640				MMAF Equipment Finance LLC 2019-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000							MMAF Equipment Finance LLC 2019-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
							Rozier LLC	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			04-2443240 04-3548444				MML Management Corporation MassMutual International Holding MSC, Inc	MA	NIA NIA	MM Investment Holding	Ownership		MMLIC		
			04-3548444				MassMutual International Holding MSC, Inc MassMutual Holding MSC, Inc	MA	NIA NIA	MML Management Corporation MML Management Corporation	Ownership Ownership		MMLIC		
			04-3341/0/				Massmutual Holding MSC, Inc.	MA	NIA	Massachusetts Mutual Life Insurance	ownership	100.000	.   WWLIG		
							MML CM LLC	DE	NIA	Company	Ownership		MMLIC		
0000							Blueprint Income LLC	DE NY	NIA	ML CM LLC	Ownership	100.000	MMLIC		
0000							Flourish Digital Assets LLC		NIA	MML CM LLC	Ownership.		MMLIC		
0000							Flourish Financial LLC	DE	NIA	MML CM LLC	Ownership.	100.000	MMLIC		
							Flourish Holding Company LLC	DE	NIA	MML CM LLC	Ownership.	100.000	MMLIC		
							Flourish Insurance Agency LLC	DE DE	NIA	MML CM LLC	Ownership.	100.000	MMLIC		
0000							Flourish Technologies LLC	DE	NIA	MML CM LLC	Ownership		MMLIC		
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0000			04-3356880				MML Distributors LLC	MA	NIA	Company	Ownership		. MMLIC		
0000			04-3356880				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
							MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
				1						Massachusetts Mutual Life Insurance					
			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
			06-1563535	2881445			The MassMutual Trust Company, FSB	CT	NIA	Company	Ownership	100.000	MMLIC		
							MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance					
0000			04-1590850				LLC	DE	NIA	Company	Ownership	100.000	MMLIC	,	
0000			04 4500050	1			MM. Definite Finite Find Investor 110	DE	NUA	Massachusetts Mutual Life Insurance	0	100.000			
0000			04-1590850 04-1590850				MML Private Equity Fund Investor LLC MML Private Equity Fund Investor LLC	DE DE	NIA NIA	Company Baring Asset Management Limited	Ownership	100.000	MMLIC		
			04-1090800				mmL FIIVALE EQUILY FUND INVESTOR LLC	VE	NIA	Massachusetts Mutual Life Insurance	Management				
0000			04-1590850	1			MM Private Equity Intercontinental LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	100.000	MMLIC		
							mm i i i vate Lyurty intel continental LLC			Massachusetts Mutual Life Insurance	omioi allip	100.000			
0000			45-2738137	1			Pioneers Gate LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
			10 2100 101				I TONOOTO VALO LEO			Massachusetts Mutual Life Insurance	omioronip				
0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership		MMLIC		
0000			06-1597528				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Ownership		MMLIC		
			00 1001020				macomataat Aoorgiment company			madomataat florating EEC	owner on p.	100.000			

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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-	
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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			37-1732913		-	,	Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100,000	MMLIC		4
			0/ 1/02010				Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MLIC		
			40.0050044					UE							
			46-2252944				Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
0000							Athens Fund Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.000	MMLIC		
							MassMutual Ventures Management LLC	DE	NIA.	MassMutual Ventures Holding LLC	Ownership.		MMLIC		
		••••••					MassMutual Ventures SEA Management Private	UL		massimutual ventures norunny LLC	owner simp				
													188.10		
							Limited	DE	NIA	MassMutual Ventures Management LLC	Ownership		MMLIC		
							MassMutual Ventures Southeast Asia   LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
0000							MassMutual Ventures Southeast Asia II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
							MassMutual Ventures UK LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
			47-1296410				MassMutual Ventures US   LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		
			1 1200410				MassMutual Ventures US II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
								UE							
							MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
							MassMutual Ventures US IV LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
							Open Alternatives LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC		
			04-1590850				MM Rothesay Holdco US LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
0000							Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership		WILIC		
							Rothesay Life Pic	GBR	NIA	Rothesay Limited	Ownership		MML10		
							Rothesay MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Ownership		MMLIC		
							Rothesay MA No.2 Limited	GBR	NIA	Rothesay Life PLC	Ownership		MMLIC		
							Rothesay MA No.3 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
							Rothesay MA No.4 Limited	GBR	NIA	Rothesav Life PLC	Ownership		MMLIC		
0000							LT Mortgage Finance Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
							Rothesay Property Partnership 1 LLP	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MLIC		
							Rothesay Foundation	GBR	NIA	Rothesay Line FLC		100.000			
											Ownership				
							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership		MMLIC		
0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership		MMLIC		
							Rothesay Asset Management Australia Pty Ltd .	AUS	NIA	Rothesay Asset Management UK Limited	Ownership		MMLIC		
0000							Rothesay Asset Management US LLC	DE	NIA	Rothesav Asset Management UK Limited	Ownership	100.000	MMLIC		
0000							MM Catalyst Fund LLC	DE	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
0000			47-1466022				LifeScore Labs, LLC	MA	NIA	MassMutual Holding LLC	Ownership		MMLIC		
			04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership		MMLIC		
			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership		MMLIC		
0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership		MMLIC		
			45-4000072				MM Asset Management Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership		MMLIC		
0000			51-0504477				Barings LLC	DE	NIA	MassMutual Asset Management Holding LLC	Ownership.		MMLIC		
							Baring Asset Management (Asia) Holdings			nover management norally LLO	P				
			98-0524271				Limited	HKG	NIA	Barings LLC	Ownership.		MLIC	1	
			30-0324271					nku	NIA		owner snip				
							Baring International Fund Managers (Bermuda)			Baring Asset Management (Asia) Holdings					
0000			98-0457465				Limited	BMU	NIA	Limited	Ownership		MMLIC		
										Baring Asset Management (Asia) Holdings					
0000			98-0457463				Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership.		MMLIC		
							Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership		MMLIC		
							Barings Investment Management (Shanghai)			Dar my Asset Management (Asia) LIMITED	omici sirip				
0000								11/0				100,000	144 10	1	1
							Limited	HKG	NIA	Baring Asset Management (Asia) Limited	Ownership		MMLIC		
							Barings Overseas Investment Fund Management	1		Barings Investment Management (Shanghai)				1	
							(Shanghai) Limited	HKG	NIA	Limited	Ownership	100.000	MMLIC		
1 1										Baring Asset Management (Asia) Holdings					1
			98-0457707				Baring SICE (Taiwan) Limited	TWN	NIA	Limited	Ownership	100.000	MMLIC	1	
							buing oron (ranan) Ennited			Baring Asset Management (Asia) Holdings	onition on tp				
0000							Denimore Olivere enter 1 t l	SGP	ALC A		0	100.000	MILIC	1	
							Barings Singapore Pte. Ltd.		NIA	Limited	Ownership		MMLIC		

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										(Ownership,	is		ls an	
					Name of Securities			Relation-		Board.	Owner-		SCA	
					Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC			if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No	*
Coue	Cloup Name	Code	Number	ROOD		Of Allillates	lion	Linuty	Baring Asset Management (Asia) Holdings	Other)	lage		(163/140	/
0000			98-0236449			Barings Japan Limited	JPN	NIA	Limited	Ownership		MMLIC		
			30 0200443			Dar mga bapan Emirted			Baring Asset Management (Asia) Holdings	owner amp				
						Barings Australia Holding Company Pty Ltd	AUS	NIA	Limited	Ownership		MMLIC		
0000			98-0457456			Barings Australia Pty Ltd	AUS		Baring Australia Holding Company Pty Ltd.	Ownership	100.000	MMLIC		
0000			80-0875475			Barings Finance LLC	DE		Barings LLC	Ownership.		MMLIC		
0000						BCF Europe Funding Limited	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000						BCF Senior Funding I LLC	DE	NIA	Barings Finance LLC	Ownership		. MMLIC		
						BCF Senior Funding I Designated Activity								
0000						Company	IRL		Barings Finance LLC	Ownership		. MMLIC		
0000						Barings Real Estate Acquisitions LLC	DE		Barings LLC	Ownership	100.000	MMLIC	.	
0000			04-3238351			Barings Securities LLC	DE		Barings LLC	Ownership		. MMLIC		
			98-0437588			Barings Guernsey Limited	GGY		Barings LLC	Ownership		MMLIC		
0000						Barings Europe Limited	GBR		Barings Guernsey Limited	Ownership		. MMLIC		
						Barings Asset Management Spain SL	ESP		Barings Europe Limited	Ownership		MMLIC		
0000						Barings GmbH	DEU		Barings Europe Limited	Ownership		. MMLIC		
0000						Barings Italy S.r.I Barings Sweden AB	ITA SWE		Barings Europe Limited Barings Europe Limited	Ownership	100.000 100.000	MMLIC		
0000						Barings Sweden AB	SWE		Barings Europe Limited Barings Europe Limited	Ownership Ownership		MMLIC		
						Barings Real Estate UK Holdings Limited	DE		Barings Europe Limited	Ownership	100.000	MMLIC		
			98-0432153			Barings (U.K.) Limited			Barings Europe Limited	Ownership		MIC		
			98-0432133			Baring Asset Management Limited	GBR		Barings Europe Limited	Ownership	100.000	MIC		
0000			30 0241303				GBR		Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-1012393			Barings Global Advisors Limited	GBR		Baring Asset Management Limited	Ownership.	100.000	MMLIC		
			98-0457328				GBR		Baring Asset Management Limited	Ownership.	100.000	MMLIC		
						Baring International Investment Management								
0000			98-0457587			Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
									Baring International Investment Management					
			98-0457576			Baring Asset Management UK Holdings Limited .	GBR	NIA	Holdings	Ownership	100.000	. MMLIC		
						Baring International Fund Managers (Ireland)			Baring Asset Management UK Holdings Limited					
0000			98-0524272			Limited	IRL	NIA		Ownership	100.000	. MMLIC		
									Baring Asset Management UK Holdings Limited					
0000						Baring Asset Management Switzerland Sàrl	CHE	NIA		Ownership		. MMLIC		
0000			00 0407550			Daning France 010	ED A		Baring Asset Management UK Holdings Limited	0	100,000			
0000 0000			98-0497550 98-0457586			Baring France SAS Baring Fund Managers Limited	FRA GBR	NIA NIA	Baring Asset Management Limited	Ownership Ownership	100.000	. MMLIC		
0000			30-043/300			BCGSS 2 GP LLP	GBR		Baring Fund Managers Limited	Ownership		MMLIC	-	
			98-0457578				GBR		Baring Asset Management Limited	Ownership		MMLIC		
			JJ-04J/J/0			Barings Core Fund Feeder   GP S.à.r.l.	LUX		Baring Asset Management Limited Baring Asset Management Limited	Ownership	100.000	MMLIC	•	1
						Barings BME GP S.à.r.I.			Baring Asset Management Limited	Ownership	100.000	MIC		
0000						Barings GPC GP S.à. r.I.	LUX		Baring Asset Management Limited	Ownership.	100.000	MMLIC		Ι
						Barings European Core Property Fund GP Sàrl .	GBR		Baring Asset Management Limited	Ownership		MMLIC		
						Barings Investment Fund (LUX) GP S.à. r.I	LUX		Baring Asset Management Limited	Ownership.		MMLIC		
0000						Barings Umbrella Fund (LUX) GP S.à.r.l.	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
						GPLF4(S) GP S.à r.l	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	. MMLIC		
0000						PREIF Holdings Limited Partnership	GBR		Baring Asset Management Limited	Ownership	100.000	. MMLIC		
0000						BMC Holdings DE LLC	DE		Barings LLC	Ownership	100.000	. MMLIC		
0000			04-3238351	3456895		Barings Real Estate Advisers Inc	CA	NIA	Barings LLC	Ownership	100.000	. MMLIC		
							l		Massachusetts Mutual Life Insurance		1			
0000			81-4258759			CRA Aircraft Holding LLC	DE DE	NIA	Company	Ownership/Influence	40.000			
0000			81-4258759			CRA Aircraft Holding LLC	UE	NIA	Barings LLC	Influence	+	MMLIC		
0000			00.0500400			Aland Develop the Heldings LD	DE	NIA	Massachusetts Mutual Life Insurance	0	00 700			
0000			83-0560183 83-0560183			Aland Royalty Holdings LP	DE		Company	Ownership		. MMLIC	•	
			83-0560183			Aland Royalty Holdings LP	UE	NIA	Barings LLC	Management		. MMLIU		

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					Name of Sec	rities		Relation-		Board.	Owner-		SCA	
					Exchange		Domi-	ship		Management,	ship		Filing	
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Group		Company	ID	Federal	(U.S. o	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK Internatio	al) Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	·) ^
									Massachusetts Mutual Life Insurance					
			82-2932156			GASL Holdings LLC	DE DE	NIA	Company	Ownership				
0000			82-2932156			GASL Holdings LLC	DE	NIA	Barings LLC	BOARD		MMLIC		
0000			10.0011000				05		Massachusetts Mutual Life Insurance	a	10,000			
0000			46-2344300			Intermodal Holdings II LLC	DE	NIA	Company	Ownership				
0000			46-2344300			Intermodal Holdings II LLC	DE	NIA	Barings LLC	Management		MMLIC		
									Massachusetts Mutual Life Insurance		17 100			
0000						Novation Companies, Inc.	MD	NIA	Company	Ownership				
0000						Novation Companies, Inc.	MD	NIA	Barings LLC	Influence		MMLIC		
0000			40 5400000			Ded Laber Versteinen 11.0	<b>DC</b>	N1.4	Massachusetts Mutual Life Insurance	Omenaki (Influe	04 500	10		
0000			46-5460309			Red Lake Ventures, LLC	DE	NIA	Company	Ownership/Influence				
0000			46-5460309				DE	NIA	Barings LLC	Influence		MMLIC		
									Massachusetts Mutual Life Insurance					
0000			81-4065378				DE	NIA	Company	Ownership/Influence				
			81-4065378			Remington L & W Holdings LLC	DE	NIA	Barings LLC	Influence		MMLIC		
									Massachusetts Mutual Life Insurance					
						Tamiami Citrus, LLC	DE	NIA	Company	Ownership		MMLIC		
0000						Tamiami Citrus, LLC	DE	NIA	Barings LLC	Management/Board		MMLIC		
						Teaktree Acquisition, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence		MMLIC		
0000						Teaktree Acquisition, LLC	DE	NIA	Barings LLC	Influence		MMLIC		
									Massachusetts Mutual Life Insurance					
0000						Techquity, LP	DE	NIA	Company	Ownership		MMLIC		
						Techquity, LP	DE DE	NIA	Barings LLC	Influence		MMLIC		
0000			46-0687392			Validus Holding Company LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
						VGS Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence		MMLIC		
0000						VGS Acquisition Holding, LLC	DE	NIA	Barings LLC	Management		MMLIC		
						Aland Royalty GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000						Alaska Future Fund GP, LLC	DE	NIA	Barings LLC	Ownership				
						BAI GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000						BAI Funds SLP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000						Baring Asset-Based Income Fund (US) GP, LLC		NIA	Barings LLC	Ownership		MMLIC		
0000						Barings CMS Fund GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
									Massachusetts Mutual Life Insurance					
0000						Barings Hotel Opportunity Venture I GP, LLC		NIA	Company	Ownership				
0000						Barings Investment Series LLC	DE	NIA	Barings LLC	Ownership				
0000						Barings Emerging Generation Fund GP, LLC	DE	NIA	Barings LLC	Ownership				
0000						Barings Emerging Generation Fund GP II, LLC		NIA	Barings LLC	Ownership				
						Barings ERS PE Emerging Manager III GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
						Barings Global Investment Funds (U.S.)				I				1
			04-1590850			Management LLC	DE	NIA	Barings LLC	Ownership				
0000						Barings CLO Investment Partners GP, LLC	DE	NIA	Barings LLC	Ownership				
						Barings Core Property Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000			
0000						Barings Direct Lending GP Ltd	CYM	NIA	Barings LLC	Ownership		MMLIC		
									Massachusetts Mutual Life Insurance	I				
0000			84-3784245			Barings Emerging Generation Fund LP	DE	NIA	Company	Ownership				
0000			84-3784245			Barings Emerging Generation Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
						Barings Global Energy Infrastructure				I				
0000						Advisors, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
						Barings North American Private Loan Fund								
0000						Management, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
						Barings North American Private Loan Fund								1
						Management II, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
						Barings North American Private Loan Fund								
0000						Management III, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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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	o) *
	·						Barings Global Real Assets Fund GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		/
0000							Barings GPSF	DE	NIA	Barings LLC	Ownership.	100.000	MILIC		
							Sat thigo all of			Massachusetts Mutual Life Insurance					
			84-5063008				Barings Small Business Fund LLC	DE	NIA	Company	Ownership		MMLIC		
0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Barings LLC	Management		MILIC		
			98-0536233				Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000			30 0300200				BHOVI Incentive LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000							BIG Real Estate Fund GP LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000							BRECS VII GP LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
							BREDIF GP LLC		NIA NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							CHY Venture GP LLC		NIA NIA	Barings LLC	Ownersnip Ownership	100.000	MMLIC		
							CREF X GP LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
			04-1590850				Great Lakes III GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000							Lake Jackson LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
			04-1590850				Loan Strategies Management LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership		. MMLIC		
			80-0920285				Mezzco IV LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
							Mezzco Australia II LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
							RECSA-NY GP LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
0000			04-1590850				SBNP SIA II LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
							SBNP SIA III LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
							Somerset Special Opportunities Management LLC			°	·				
			04-1590850					DE	NIA	Barings LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
							Amherst Long Term Holdings, LLC	DE	NIA	Company	Ownership		MMLIC		
							Anner at Long Term Horumga, LEO			Massachusetts Mutual Life Insurance	owner amp				
			04-3313782				MassMutual International LLC	DE	NIA	Company	Ownership		MMLIC		
0000			04-3313702				MassMutual Solutions LLC	DE	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
							Haven Technologies Asia Limited	HKG	NIA.	MassMutual Solutions LLC	Ownership.		MMLIC		
0000							Yunfeng Financial Group Limited	HKG	NIA	MassMutual International LLC	Ownership		MMLIC		
0000							MassMutual Asia Limited (SPV)			MassMutual International LLC			MMLIC		
		••••••					Massmutual Asia Limited (SPV)	HKG	NIA		Ownership		MMLIC		
0000			04 4500050		1		Mar Manager in the state of the state	DE	NLA	Massachusetts Mutual Life Insurance	0	100,000	184.10		
0000			04-1590850				MML Mezzanine Investor II, LLC	DE	NIA	Company	Ownership		MMLIC		
0000			04 4500050					55		Massachusetts Mutual Life Insurance		44.400	100	1	1
0000			04-1590850				MML Mezzanine Investor III, LLC	DE	NIA	Company	Ownership	11.100	MMLIC		
										Massachusetts Mutual Life Insurance				1	1
0000			27-3576835				MassMutual External Benefits Group LLC	DE	NIA	Company	Ownership		MMLIC		
					1			1		Massachusetts Mutual Life Insurance					
0000			04-1590850				100 w. 3rd Street LLC	DE	NIA	Company	Ownership		MMLIC		
					1			1		Massachusetts Mutual Life Insurance					
			04-1590850				2160 Grand Manager LLC	DE	NIA	Company	Ownership		MMLIC		
					1		-	1		Massachusetts Mutual Life Insurance					
			82-2432216				300 South Tryon Hotel LLC	DE	NIA	Company	Ownership.		MMLIC		
							, , ,			Massachusetts Mutual Life Insurance					
.0000			04-1590850				300 South Tryon LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
.0000					1		Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership/Influence		MMLIC		
							Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance					
0000					1			DE	NIA	Company	Ownership	100.000	MMLIC		
							Barings Affordable Housing Mortgage Fund I			company	omoranip				
0000							LLC	DE	NIA	Barings LLC	Management		MMLIC	1	
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			61-1902329		1		Barings Affordable Housing Mortgage Fund II	DF	NIA	Massachusetts Mutual Life Insurance Company	Ownership	98,400	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	Croup Nama			RSSD	CIK	International)	Or Affiliates			(Name of Entity/Person)	Other)				
Code	Group Name	Code	Number	R99D	CIK	International)		tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No	<i>י</i> )
							Barings Affordable Housing Mortgage Fund II								
0000			61-1902329				LLC	DE	NIA	Barings LLC	Management		MMLIC		
							Barings Affordable Housing Mortgage Fund III			Massachusetts Mutual Life Insurance					
			85-3036663				LLC	DE	NIA	Company	Ownership				
							Barings Affordable Housing Mortgage Fund III								
0000			85-3036663				ЦС	DE	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	management				
			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Company	Ownership/Influence	10.800	WMLIC		
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC	•••••	
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Barings LLC	Management		MMLIC		
							Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance					
0000								IRL	NIA	Company	Ownership/Influence		MMLIC		
							Barings Emerging Markets Corporate Bond Fund								
0000								IRL	NIA	Barings LLC	Ownership.		MMLIC		
							Barings European Real Estate Debt Income Fund	t i		Massachusetts Mutual Life Insurance					
								LUX	NIA	Company	Ownership/Influence	94.700	MMLIC		
							Barings European Real Estate Debt Income Fund			company					
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0000			00 4000047				Babson Capital Global Special Situation	05				00 500	188.10		
0000			98-1206017				Credit Fund 2	DE	NIA	Company	Ownership/Influence		MMLIC		
							Babson Capital Global Special Situation								
0000			98-1206017				Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership		. MMLIC		
							Babson Capital Global Special Situation								
0000			98-1206017				Credit Fund 2	DE	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Company	Ownership/Influence		MMLIC		
			37-1506417				Babson Capital Loan Strategies Fund, L.P		NIA	C.M. Life Insurance Company	Ownership	3.800	MMLIC		
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE		Barings LLC	Management.		MMLIC		
			0/ 100011/				baboon oupriur Eoun otratogroo runa, E.r.			Massachusetts Mutual Life Insurance	munugomorr				
0000							Barings US High Yield Bond Fund	IRL	NIA	Company	Ownership/Influence	53,900	MMLIC		
									NIA	Barings LLC			MMLIC		
0000							Barings US High Yield Bond Fund	IRL			Management				
0000							Babson CLO Ltd. 2013-1	CYM	NIA	Barings LLC	Influence	-+			
0000							Babson CLO Ltd. 2014-1	CYM	NIA	Barings LLC	Influence				
0000							Babson CLO Ltd. 2015-1	<u>C</u> YM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2015-II	CYM		Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2016-1	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson CLO Ltd. 2016-11	CYM	NIA	Barings LLC	Influence.		MMLIC		
							Barings CLO Ltd. 2017-1	CYM		Barings LLC	Influence.		WILIC		
							Barings CLO 2018-111	CYM	NIA	Barings LLC	Influence	T	WILIC		T
							Barings CLO 2018-IV	CYM		Barings LLC	Influence		MWLIC		
			98-1473665							Barings LLC	Influence.		MMLIC		
			30-14/3003				Barings CLO 2019-11								
							Barings CLO 2019-111	CYM		Barings LLC	Influence	-+			
0000							Barings CLO 2019-IV	<u>C</u> YM		Barings LLC	Influence				
0000							Barings CLO 2020-1	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2020-11	<u>C</u> YM	NIA	Barings LLC	Influence		MMLIC		
							Barings CLO 2020-111	CYM	NIA	Barings LLC	Influence		MMLIC		
							Barings CLO 2020-IV	CYM	NIA.	Barings LLC	Influence.		MMLIC		
							Barings CLO 2021-1	CYM		Barings LLC	Influence.		WLIC		
0000							Barings CLO 2021-11	CYM		Barings LLC	Influence		WILIC		1
								CYM		Barings LLC	Influence.		MMLIC		
							Barings CL0 2021-III								
							Babson Euro CLO 2014-I BV	NLD	NIA	Barings LLC	Influence				
							Babson Euro CLO 2014-II BV	NLD	NIA	Barings LLC	Influence				
0000							Babson Euro CLO 2015-1 BV	NLD	NIA	Barings LLC	Influence		MMLIC		
0000			36-037260H				Barings Euro CLO 2019-I BV	IRL	NIA	Barings LLC	Influence		MMLIC		

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NAC         Nerve of Security Document         Nerve of Security Docu	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Nucl Coop Name         Nucl Dot         Free Name         Exchange Dot         Exchange Dot         Exchange Dot         Desc Dot         Desc Dot <thdesc Dot         Desc Dot         Des</thdesc 												(Ownership,	is			
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Ormone         Ormone         Desc         Number         Desc         Number         Desc         Number         Person         Utimate Control         Quert           0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         00000         0000         0000 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									-							
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Code         Group Names         Code         Number         First Statute         One Entrop Names         Cone (Names)         C	Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
D00         D01         D02         D02         D02         D02         D02         D03         D03 <td></td> <td>Group Name</td> <td>Code</td> <td>Number</td> <td>RSSD</td> <td>CIK</td> <td>International)</td> <td>Or Affiliates</td> <td>tion</td> <td>Entity</td> <td></td> <td>Other)</td> <td></td> <td>Entity(ies)/Person(s)</td> <td>(Yes/No)</td> <td>*</td>		Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity		Other)		Entity(ies)/Person(s)	(Yes/No)	*
DOD         OP		Croup Name	oouc	Number	ROOD	OIIX	internationaly						idge		(103/10)	/
SMM         SP-55297         Burge for Q.2.271-30C         PL         NM         Series LD         Inframe         M4.C         M4.C         M4.C           SMM         A         SP-55297         B         B         NM         Series LD         Inframe         M4.C         Series LD         M4.C         M4.C <td></td>																
SAME         Image         Bit         Note         Note <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																
000         bit Market Forder SU         Re         NU         Bit Market SU         Mit Comment         Mit Comm				37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
D00         Intersect         Barring Ear 0.2 20:11 M/C         BL         MA         Barring LL         Intersect         Out         ML         ML           000         Intersect         Free QL         Intersect         Free QL         ML         Barring LL	0000							Barings Euro CLO 2021-11 DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m         m										NIA						
DOD         Bit GAUREA         Bit right 201 Densities Flore to D         X         M.A         Density fulfames         98 20         M.C.         M.C.           DOD         Bit right 201 Densities Flore to D         X         M.A         Density fulfames         98 20         M.C.								Dai mga Edi 0 0E0 2021 111 DA0								
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NOD         Operating from bins def 11 (SER 11)         ULL         MAL         Operating from bins def 11 (SER 11)         ULL         MAL         Operating from bins def 11 (SER 11)         MAL								-			Massachusetts Mutual Life Insurance	-				
JOO         Bitring Ear S lake 601 (BERN 11)         LL         U.X.         U.X.         U.K. (Life instance Graym)         Description         3.0         MLC         MLC           JOO         Arring Life         Bitring Ear S lake 601 (BERN 11)         LL         MLL         Bitring Ear S lake 601 (BERN 11)         LL         MLL         Bitring Ear S lake 601 (BERN 11)         LL         MLC         Arring Life	0000		1	1	1			Barings Euro Value Add II (BBEEVA II)		NIA		Ownership/Influence	35 500	MILIC	1	
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000								Barings Beal Estate European Value Add I SCSr								
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000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000     000 <td></td> <td></td> <td>• ••••••</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>udh</td> <td>NIA</td> <td>C.M. Life insurance company</td> <td>Owner Ship</td> <td></td> <td>MWLIC</td> <td></td> <td></td>			• ••••••						udh	NIA	C.M. Life insurance company	Owner Ship		MWLIC		
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1000         65-44620         Barring Rel Estate Det Incore Food VP         CE         N.A.         CAL Life Incurrece Comany         Influence         MLIC         MLIC           000         65-346200         Barring Rel Estate Det Incore Food VP         CE         N.A.         Saring LiCe         Water         MLIC         MLIC <td>0000</td> <td></td> <td></td> <td>85-3449260</td> <td></td> <td></td> <td></td> <td>Barings Beal Estate Debt Income Fund IP</td> <td>DE</td> <td>NIΔ</td> <td></td> <td>Ownership/Influence</td> <td>71 900</td> <td>MM IC</td> <td></td> <td></td>	0000			85-3449260				Barings Beal Estate Debt Income Fund IP	DE	NIΔ		Ownership/Influence	71 900	MM IC		
000     63-84280     Barring Eldel Intere Fund LP     E     NA     Barring Eldel Firery Infratructure Fund L     MLC       000     94-132284     Barring Eldel Energy Infratructure Fund L     NA     Barring Eldel Energy Infratructure Fund L     NA     Barring Eldel Energy Infratructure Fund L     NA       000     94-132284     Barring Eldel Divided Chargy Infratructure Fund L     NA     Barring Fldel Energy Infratructure Fund L     NA     Barring Fldel Energy Infratructure Fund L     NA       000     94-132284     Barring Eldel Divided Chargy Infratructure Fund L     NA     Barring Fldel Divided Chargy Infratructure Fund L     NA     Barring Fldel Divided Chargy Infratructure Fund L     NA       0000     94-132284     Barring Eldel Divided Chargy Infratructure Fund L     Infrag Eldel Divided Chargy Infratructure Fund L     NA     Barring Eldel Divided Chargy Infratructure Fund L     MLC       0000     92-897745     Barring Eldel Divided Chargy Infratructure Fund L     IR     NA     Barring Eldel Divided Chargy Infratructure Fund L     MLC       0000     92-897745     Barring Eldel Divided Chargy Infratructure Fund L     IR     NA     Cargo MA     MLC       0000     92-897745     Barring Eldel Statel Statel Fund L     IR     NA     Cargo MA     Cargo MA       0000     92-897745     Barring Eldel Special Statel Fund L     IR     NA																
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000         98-132384         P         P         CN         NA         Company         Description         99-200         MLC         MLC           .000         99-132384         P         P         CN         NA         Bar ings is label forcy infrastructure fund i         Imagement         Management         Mall C         M				82-5330194				Barings Global Em. Markets Equity Fund	NC	NIA	Barings LLC	Management		MMLIC		
000         98-133234         P         P         CN         NAL         Corpany         Oner ship/influence         99.200         MLIC           .000         98-133234         P         P         CN         NAL         Barings Schall Energy Infrastructure Fund 1         NAL         Management         Malc         Malc         Malc         Malc         Management         Malc								Barings Global Energy Infrastructure Fund I			Massachusetts Mutual Life Insurance	-				
000     9-132384     Parings Global Bergy Infrastructure Fund I     Parings Global Dergy Infrastructure Fund I     Parings Global Dergy Infrastructure Fund I     Management     Mal.C       000     22-367745     Barings Global Fact Mark Strat Fund U     JR     NIA.     Barings LO     Management     Mal.C       000     22-367745     Barings Global Fact Assoc     Barings Global Fact Assoc     Parings Global Fact Assoc     Parings Global Fact Assoc     Parings Global Fact Assoc     Parings Global Fact Assoc       0000     22-367745     Barings Global Fact Assoc     Barings Global Fact Assoc     Parings Global Fact Assoc     Parings Global Fact Assoc       0000     22-367745     Barings Global Fact Assoc     Barings Global Fact Assoc     Parings Global Fact Assoc     Parings Global Fact Assoc       0000     22-367745     Barings Global Social Strat Fund P     E     NIA.     Capany     Omership/Influence     42.400     Mal.C       0000     Barings Global Social Strat Fund P     E     NIA.     Capany     Omership/Influence     15.400     Mal.C       0000     Barings Global Social Strat Fund P     JR     NIA.     Capany     Omership/Influence     15.400     Mal.C       0000     Barings Global Social Strat Fund P     JR     NIA.     Capany     Omership/Influence     15.400     Mal.C <td< td=""><td>0000</td><td></td><td></td><td>08-1332384</td><td></td><td></td><td></td><td></td><td>CYM</td><td>NIΔ</td><td>Company</td><td>Ownership/Influence</td><td>99 200</td><td>MM IC</td><td></td><td></td></td<>	0000			08-1332384					CYM	NIΔ	Company	Ownership/Influence	99 200	MM IC		
D000         Bering Global Dividends Otampion Fund         D/R         N/IA         Baring Asset Wangement Linited         Mangement         MLIC           0000         Baring Global Dividends Otampion Fund         JR         N/IA         Baring LCC         Mangement         MLIC         Mangement         MLIC         ML				30-1002004							company	ownership/initidence		. WWLIC		
1000     Barings Global Dividends Campion Fund     JRL     NIA.     Barings LC     Management.     MAL C       0000     Barings Global Inv. Grads Stat Fund     JRL     NIA.     Barings Global Pasi Asset Fund P     Dec Stat Fund     JRL     NIA.       0000     Barings Global Pasi Asset Fund P     DE     NIA.     Barings Global Pasi Asset Fund P     Dec Stat Fund P																
1000     Barings Global Inv. Grade Strikt Fund.     J.PL.     NA.     Barings LD.     Mangement.     MLIC       1000     Barings Global Real Assets Fund UP     E.     NA.     Company     Omership Influence     42.400     MLIC       1000     Barings Global Real Assets Fund UP     E.     NA.     Company     Omership Influence     42.400     MLIC       1000     Barings Global Real Assets Fund UP     E.     NA.     Company     Omership Influence     42.400     MLIC       1000     Barings Global Septial Situations Credit Fund     Barings Global Septial Situations Credit 4       0000     Barings Global Septial Situations Credit 4     Delaare     Ce     NA.     Campany     Omership.     MLIC       0000     Barings Global Septial Situations Credit 4     Delaare     Ce     NA.     Campany     Omership.     MLIC       0000     Barings Global Septial Situations Credit 4     Delaare     Ce     NA.     Campany     Omership.     MLIC       0000     Barings Global Septial Situations Credit 4     Delaare     Ce     NA.     Campany     Omership.     MLIC       0000     Barings Global S				98-1332384												
000     82-387745     Bar ings Global Rel Assets Fund LP     DE     NA     Company     Denership/Influence     42-400     MLIC       0000     82-387745     Bar ings Global Rel Assets Fund LP     DE     NA     C.M. Life Insurance Company     Denership/Influence     7.500     MLIC       0000     82-387745     Bar ings Global Rel Assets Fund LP     DE     NA     C.M. Life Insurance Company     Denership/Influence     7.500     MLIC       0000     82-387745     Bar ings Global Rel Assets Fund LP     DE     NA     C.M. Life Insurance Company     Denership/Influence     154:00     MLIC       0000     Bar ings Global Special Struttors Credit 4     Delasare     Denership/Influence     154:00     MLIC     MLIC       0000     Bar ings Global Special Struttors Credit 4     Delasare     Denership/Influence     154:00     MLIC     MLIC       0000     Bar ings Global Special Struttors Credit 4     Delasare     Denership/Influence     154:00     MLIC     MLIC       0000     Bar ings Global Special Struttors Credit 4     LK     LK     NA     C.M. Life Insurance Company     Denership/Influence     154:00     MLIC       0000     Bar ings Global Special Struttors Credit 4     LK     LK     NA     E     NA     E     Masexhuest 58:Multi Life Insurance								Barings Global Dividends Champion Fund	IRL	NIA	Barings LLC	Management				
0000     82-367745     82-367745     Bar ings fichal Rei Assets Fund LP     Der NIA     Company     Durership/Influence     42-400     MLIC     MLIC       0000     82-367745     Bar ings fichal Rei Assets Fund LP     DE     NIA     C.M. Life Insurance Corpany     Durership/Influence     42-400     MLIC       0000     82-367745     Bar ings fichal Rei Assets Fund LP     DE     NIA     C.M. Life Insurance Corpany     Durership/Influence     7.500     MLIC       0000     82-367745     Bar ings fichal Rei Assets Fund LP     DE     NIA     C.M. Life Insurance     Durership/Influence     15.400     MLIC       0000     Bar ings fichal Special Situations Credit 4     DE     NIA     C.M. Life Insurance     Durership/Influence     15.400     MLIC       0000     Bar ings fichal Special Situations Credit 4     DE     NIA     C.M. Life Insurance     Durership.     66.300     MLIC       0000     Bar ings fichal Special Situations Credit 4     DE     NIA     C.M. Life Insurance     Durership.     3.500     MLIC       0000     Bar ings fichal Special Situations Credit 4     DE     NIA     C.M. Life Insurance     Durership.     4.400     MLIC       0000     Bar ings fichal Special Situations Credit 4     LW     NIA     Durership.     4.600     MLI	0000							Barings Global Inv. Grade Strat Fund	IBL	NIA	Barings LLC	Management		MMLIC		
D000       62-3867745       Barings Global Beal Assts Fund LP       DE       N.A.       Company       Omersip/Influence       42.400       M.L.IC       M.L.IC         D000       82-3867745       Barings Global Beal Assts Fund LP       DE       N.A.       C.M. Life Insurance Company       Omersip/Influence       42.400       M.L.IC       M.L.IC         D000       82-3867745       Barings Global Special Situations Credit Fund       DE       N.A.       C.M. Life Insurance       Magement       M.L.IC       M.L.IC         D000       Barings Global Special Situations Credit 4       DE       N.A.       Company       Omership/Influence       15.400       M.L.IC       M.L.IC       Deleaser         D000       Barings Global Special Situations Credit 4       DE       N.A.       Company       Omership       M.L.IC       Deleaser																
0000     82-3667745     Barings Global Peal Assets Fund LP     LE     NIA     CM     Life Insurance Oppany     Ownerspin_(n)     7.500     MLIC     MLIC       0000     82-3667745     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.500     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.500     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.500     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.500     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.600     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.600     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     Ownerspin_(n)     7.600     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     CM     Life Insurance Oppany     Ownerspin_(n)     7.600     MLIC       0000     Barings Global Peal Assets Fund LP     LE     NIA     CM     Life Insurance Oppany     Ownerspin_(n)     MLIC       0000     Barings Global Peal Assets Fund	0000			00 0007745				Paringa Clabel Deal Assate Fund ID		NLA		Ownershie (Influence	40,400	MALLO		
.000       82-387745       Barings Global Real Assets Fund LP       .DE       .NI       Barings Glubal Secial Situations Credit Fund 3       Management.       Management.       Mall C         .000			• ••••••						UE							
.000       3				82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
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.0000       Barings Global Special Situations Credit 4       DE       NIA       Barings LLC       Maagement       MALIC         .0000       Barings Global Special Situations Credit 4       LUX       NIA       C.M. Life Insurance       Ownership			1	1	1			Barings Global Special Situations Credit 4			1				1	
.0000       Barings Global Special Situations Credit 4       DE       NIA       Barings LLC       Maagement       MALIC         .0000       Barings Global Special Situations Credit 4       LUX       NIA       C.M. Life Insurance       Ownership	0000			l	1			Delaware	DE	NIA	C.M. Life Insurance Company	Ownership	3.500	MMLIC		
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0000										NIA		management		. WWLIG		
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0000									LUX	NIA	Company	Ownership	14.400	. MMLIC		
0000								Barings Global Special Situations Credit 4								
0000	0000		1	1	1					NIA	C.M. Life Insurance Company	Ownership	0.800	MILIC	1	
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000	0000		1	1	1				1.1194						1	
								20/1	LUX	NIA	Barings LLC	Management		MMLIC		
								Barings Global Special Situations Credit Fund	l l							
	0000				1			3	IRL	NIA	Barings LLC	Management		MMLIC	.	
000 Barings Hotel Opportunity Venture			1					Barings Global Technology Equity Fund					74 300			
D000				07 0077050												
Barings Innovations & Growth Real Estate Fund Massachusetts Mutual Life Insurance															· [	
				87-0977058					CT	NIA		Management		MMLIC		
								Barings Innovations & Growth Real Estate Fund			Massachusetts Mutual Life Insurance					
	0000		1	86-3661023	1				DF	NIA		Ownership	36 500	MMLIC	1	
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					Name of Securities			Relation-		Board,	Owner-		SCA	1 1
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		NAIC			if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company IE	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	2
Code	Group Name	Code Num	per RSSD	CIK	International)	Or Affiliates	tion	Éntity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	× ۱
oouc	Cloup Name			011	international)	Barings Innovations & Growth Real Estate Fund		Linuty	(Name of Enargh croon)	Othery	lage		(103/10)	4
						Barings Innovations & Growth Heal Estate Fund	1							1
0000			23				DE		C.M. Life Insurance Company	Ownership		. MMLIC		
0000						Barings Middle Market CLO 2017-I Ltd & LLC	CYM	NIA	Barings LLC	Influence.		MMLIC		
						Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence		MMLIC		1 1
0000						Barings Middle Market CLO 2019-1	CYM		Barings LLC	Influence		MMLIC		
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						Barings Middle Market CLO Ltd 2021-1	CYM	NIA		Influence	·· <b>···</b> ····	. MMLIC		
									Massachusetts Mutual Life Insurance					1 1
		38-4010	44			Barings North American Private Loan Fund LP .	DE	NIA	Company	Ownership/Influence		MMLIC		
0000		38-4010	44			Barings North American Private Loan Fund LP	DE	NIA	Baring Asset Management Limited	Management		MMLIC		
						bar nigo nor tir miorroan ri rvato Eoan rana Er			Massachusetts Mutual Life Insurance	management				
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0000						Barings RE Credit Strategies VII LP	DE	NIA	Company	Ownership/Influence		. MMLIC		
0000			84			Barings RE Credit Strategies VII LP	DE	NIA	Baring Asset Management Limited	Management		. MMLIC		
						Barings Target Yield Infrastructure Debt Fund	1		· · · · · · · · · · · · · · · · · · ·	-	1			1 1
		98-1567	12			Sal	LUX	NIA	Baring Asset Management Limited	Ownership.		MMLIC		1 1
			44					NIA	Dai ny Asset management Limited	owner strip				
						Barings Target Yield Infrastructure Debt Fund	Ч				1			1 1
0000							LUX	NIA	Baring Asset Management Limited	Influence		. MMLIC		
			54			Barings Transportation Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence		MMLIC		1
									Massachusetts Mutual Life Insurance					
		87-1262	<b>F</b> 4			Designs Trees estation Fund ID	DE	NIA		0 mm h i	0, 100	MMLIC		1 1
			54			Barings Transportation Fund LP	UE	NIA	Company	Ownership	8.100	. MMLIC		
									Massachusetts Mutual Life Insurance					1 1
0000						Braemar Energy Ventures I, L.P.	DE	NIA	Company	Ownership/Influence		MMLIC		1 1
0000						Braemar Energy Ventures I, L.P.	DE	NIA	C.M. Life Insurance Company	Owner ship		MMLIC		
0000						Braemar Energy Ventures I, L.P.	DE LUX		Barings LLC	Management		. MMLIC		
						Barings European Core Property Fund SCSp	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	9.100	MMLIC		
						Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
0000						Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
		46-5001	00			Barings European Private Loan Fund III A	LUX		Barings LLC	Ownership.		MMLIC		
0000			32			Benchmark 2018-B2 Mortgage Trust	NY		Barings LLC	Influence		. MMLIC		
						Benchmark 2018-B4	NY	NIA	Barings LLC	Influence		MMLIC		
0000		38-4096	30			Benchmark 2018-B8	NY	NIA	Barings LLC	Influence		MMLIC		1 1
						Barings Core Property Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence		MMLIC		
			09											
0000		20–5578	кя			Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		. MMLIC		
							1	1	Massachusetts Mutual Life Insurance	1	1			1 1
0000		46-5432	19			Cornerstone Real Estate Fund X LP	DE	NIA	Company	Ownership/Influence	26,900	MMLIC		
		46-5432			1	Cornerstone Real Estate Fund X LP	DE	NIA	C.M. Life Insurance Company	Ownership	3.000	MMLIC		1
0000		46-5432	10			Cornerstone Real Estate Fund X LP								
		46-5432	la			COTTIET STORE HEAT ESTATE FUND X LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC	.	·······
							1		Massachusetts Mutual Life Insurance		1			1 1
			93			Cornerstone Permanent Mortgage Fund III LLC .	MA	NIA	Company	Ownership/Influence		MMLIC		
		2001		1	1				Massachusetts Mutual Life Insurance			1	1	1
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0000		61–1793	ათ			Cornerstone Permanent Mortgage Fund IV LLC	MA	NIA	Company	Ownership		. MMLIC	.	
							1		Massachusetts Mutual Life Insurance		1			1 '
			95	0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Company	Ownership/Influence		MMLIC		
0000		90-0991	95	0001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Owner ship	4.800	MMLIC		
						Gateway Mezzanine Partners II LP	DE		Barings LLC	Management		MIC		
			ອບ			Dateway Mezzanine Partners II LP		NIA		wanayement		.   WIVIL I U	•	· · · · · · · · · · · · · · · · · · ·
							1		Massachusetts Mutual Life Insurance		1			1
						Great Lakes III, L.P	DE	NIA	Company	Ownership/Influence		MMLIC		
0000		37-1708	23			Great Lakes III, L.P.	DE	NIA	Barings LLC	Management	1	MMLIC		
									Massachusetts Mutual Life Insurance		1	1		
0000						OLA FULLIAIRE FRANCIS IV Oral	1.117	NUA		O marki (Influence	50,400			1
						GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Company	Ownership/Influence				
						GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	Management		. MMLIC		
						JPMCC Commercial Mortgage Securities Trust	1	1	1	1	1			
			11			2017–JP7	NY	NIA	Barings LLC	Influence	1	MMLIC		1 1
						JPMDB Commercial Mortgage Securities Trust			Dui 1190 LLV				-	· · · · · · · · · · · · · · · · · · ·
		38-4032				2017-C5	NY	NIA	Barings LLC	Influence		MILIC		1

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.						Name of Securities			Relation-		Board,	Owner-		SCA	
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.		NAIO					Names of							5	
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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	ı) *
i										Massachusetts Mutual Life Insurance					
			82-1512591			IH	(KR-MM Vector LP	DE	NIA	Company	Ownership/Influence		MMLIC		
.										Massachusetts Mutual Life Insurance					
			46-4255307				Narco Hotel LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
			04-1590850				liami Douglas One GP LLC	DE	NIA	Company	Influence	0.000	MMLIC		
			04-1590850				liami Douglas One GP LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MIC		
							stant bougtuo ono or 220			Massachusetts Mutual Life Insurance	enner en p				
0000			04-1590850				Niami Douglas Two GP LLC	DE	NIA	Company	Influence	0.000	MMLIC		
0000			04-1590850				Miami Douglas Two GP LLC	DE	NIA	C.M. Life Insurance Company	Influence		MMLIC		
			04-1090000			'	niami Douyids IWO OF LLO	VE	NIA	Massachusetts Mutual Life Insurance					
0000			04 1500050			I .	liani Bauglas One LB	DE	NLA		Ownership	00.000			
			04-1590850				liami Douglas One LP	DE	NIA	Company	Ownership		MMLIC		
			04-1590850			·[  !	liami Douglas One LP	DE	NIA	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
1 I										Massachusetts Mutual Life Insurance					
0000			04-1590850				liami Douglas Two LP	DE	NIA	Company	Ownership		MMLIC		
0000			04-1590850				/iami Douglas Two LP	DE	NIA	C.M. Life Insurance Company	Ownership		. MMLIC		
ı										Massachusetts Mutual Life Insurance					
0000			04-1590850				/iami Douglas Three MM LLC	DE	NIA	Company	Ownership		MMLIC		
ı										Massachusetts Mutual Life Insurance					
. 0000			87-4021641				M BIG Peninsula Co-Invest Member LLC	DE	NIA	Company	Ownership.		MMLIC		
0000			87-4021641				M BIG Peninsula Co-Invest Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
			85-3886824			,	WDIG Digital Assets Fund II LP	DE	NIA	Company	Ownership		MMLIC		
			00 0000024				abid bigital Associa fund if El			Massachusetts Mutual Life Insurance	owner amp				
			45-3623262				B Naples Golf Owner LLC	DE	NIA	Company	Ownership.		MMLIC		
			40-0020202			· · · · · · · · · · · · · · · · · · ·	no mapres dorr owner LLC	UE	NIA	Massachusetts Mutual Life Insurance	owner simp		. WWLIG		
						1	M CM Holding LLC	DE	NIA		Ownership.		MMLIC		
							MI ON HOIDING LLC		NIA	Company	Ownership		MMLIG		
										Massachusetts Mutual Life Insurance		100.000			
0000			81-3000420				M Debt Participations LLC	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
0000			81-3000420			· · · · · · · · · · · · · · · · · · ·	M Debt Participations LLC	DE	NIA	Barings LLC	Management		MMLIC		
i										Massachusetts Mutual Life Insurance					
0000			82-4411267			F	RB Apartments LLC	DE	NIA	Company	Ownership		MMLIC		
1 I										Massachusetts Mutual Life Insurance					
0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	Company	Ownership/Influence		MMLIC		
0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
0000			04-1590850				SouthPointe Industrial LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
, I						1 I				Massachusetts Mutual Life Insurance				1	
			35-2553915				Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership		MMLIC		
			41-2280127				Tower Square Capital Partners III, L.P.	DE	NIA	Barings LLC	Management		MMLIC		
			41-2280127				Tower Square Capital Partners III, L.P	DE	NIA	MassMutual Holding LLC	Ownership/Influence		MILIC		
										Massachusetts Mutual Life Insurance			1	1	1
			41-2280129			-	Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership/Influence		MMLIC		
			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management		MALIC		
			2200 120				equal o cupitar i artiforo i i in, E.I			Massachusetts Mutual Life Insurance	and a good off t				
0000			04-1590850			.	Frailside MM Member LLC	DE	NIA	Company	Ownership	59.600	MMLIC		
			04-1590850				Frailside MM Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MILIC		
			04-1030000				II A II SIUC WW WENDEL LLU	UE	INTA	Massachusetts Mutual Life Insurance	owner sillp		. WWWLIV		
			00 1005764			1	Vachington Cataway Two LLC		NLA		Ownership		MMLIC		
			83-1325764 83-1325764				Vashington Gateway Two LLC	DE DE	NIA	Company C.M. Life Insurance Company	Ownership			·	
			03-1320/64			· [ ]	Vashington Gateway Two LLC	VE	NIA		Ownership	6.700	MWLIG		
						I l.				Massachusetts Mutual Life Insurance					
0000			32-0574045				Vashington Gateway Three LLC	DE	NIA	Company	Owner ship		MMLIC		
			32-0574045				Vashington Gateway Three LLC	DE	NIA	C.M. Life Insurance Company	Ownership	11.400	MMLIC		
0000															
			04-1590850				Vest 46th Street Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership		MILIC		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Туре	lf			
											of Control	Control			
											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
								-							
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
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)	*
Coue	Cloup Name	Coue	Number	ROOD	OIN	international)		uon	Linuty	(Name of Entity/r erson)	Other)	laye		(103/110)	/
							Babson Capital Loan Strategies Master Fund LP								
0000								CYM	NIA	Barings LLC	Management		MMLIC		
							Barings China Aggregate Bond Private								
							Securities Investment Fund	CHN	NIA	Barings LLC	Management		MMLIC		
0000							Barings European Growth Trust Fund	GBR	NIA	Barings LLC	Ownership/Influence	18.700	MILIC		
0000			47-3790192				Barings Global High Yield Fund	MA	NIA	Barings LLC	Management		MMLIC		
0000							CCIC Fund	CHN	NIA	Barings LLC	Ownership/Influence				
										Massachusetts Mutual Life Insurance					
0000			71-1018134				Great Lakes II LLC	DE	NIA	Company	Ownership		MMLIC		
			71-1018134				Great Lakes II LLC	DE	NIA	C.M. Life Insurance Company	Ownership.		MILIC		
			1 1-10 10 134				UICAL LANCO II LLU				owner sillp		₩₩₩LIU		
		1								Massachusetts Mutual Life Insurance				1	1
0000			04-1590850				Wood Creek Venture Fund LLC	DE	NIA	Company	Ownership		MMLIC		
		1								Massachusetts Mutual Life Insurance				1	1
			36-4823011				50 Liberty LLC	DE	NIA	Company	Ownership.		MMLIC	1	
			36-4823011				50 Liberty LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MILIC		
			30-4023011				SO LIDERLY LLC	UE			ownership		WWLIG		
										Massachusetts Mutual Life Insurance					
							Barings California Mortgage Fund IV	CA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Company	Ownership		MIC		
0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	C.M. Life Insurance Company	Ownership		MILIC		
						•••••	Datings undietta funu Lon scop story haif	LUA	NIA		ownership		WWLTC		
										Massachusetts Mutual Life Insurance					
0000			82-2285211				Calgary Railway Holding LLC	DE	NIA	Company	Ownership				
			82-2285211				Calgary Railway Holding LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
							• , , •			Massachusetts Mutual Life Insurance					
0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NIA	Company	Ownership	100.000	MILIC		
			02-0001001				COTINITOR THE HOTOTOTOTOTOS LLC	<i>U</i> L			owner simp		. WWLIC		
										Massachusetts Mutual Life Insurance					
0000			95-4207717				Cornerstone California Mortgage Fund   LLC	CA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
			95-4207717				Cornerstone California Mortgage Fund II LLC .	CA	NIA	Company	Ownership.		MMLIC		
							Cornerstone California Mortgage Fund III LLC			Massachusetts Mutual Life Insurance	canor on p				
0000			05 1007717				connerstone cannonna montgage runu ini LLC				o 1.:	100,000	188.10		
0000			95-4207717					CA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	Company	Ownership		. MMLIC		
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA.	C.M. Life Insurance Company	Ownership		MMLIC		I I.
		1								Massachusetts Mutual Life Insurance				1	
0000		1	45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Company	Ownership	100.000	MMLIC	1	1
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Barings LLC	Management		MMLIC		
		1								Massachusetts Mutual Life Insurance				1	1
0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Company	Ownership				
0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Barings LLC	Management		MMLIC	1	
		1								Massachusetts Mutual Life Insurance				1	[]
0000			01 1700705				Oranization Drammark Westman First W		NU A		0	100,000	144 10	1	
0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NIA	Company	Ownership		MMLIC		·····
0000			81-0890084				CREA Madison Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			20-0348173				CREA/PPC Venture LLC	DE	NIA	Company	Ownership.		MMLIC		
										Massachusetts Mutual Life Insurance			1		
.0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NIA		Ownorship		MMLIC	1	
			02-2/00093				Danvirre niverwark venture, LLC	VE	NIA	Company	Ownership		.  ₩₩∟1∪		
										Massachusetts Mutual Life Insurance				1	
0000			04-1590850				Euro Real Estate Holdings LLC	DE	NIA	Company	Ownership				
							-			Massachusetts Mutual Life Insurance				1	
0000			20-3347091				Fan Pier Development LLC	DE	NIA	Company	Ownership		MMLIC	1	
			20-3347091					DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
0000			20-004/091				Fan Pier Development LLC	VE	NIA		owner snip	008.6			
		1								Massachusetts Mutual Life Insurance				1	1
			04-1590850				GIA EU Holdings LLC	DE	NIA	Company	Ownership		MMLIC		l
							*								

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											Туре	lf			
											of Control	Control			
											(Ownership,	is		ls an	1
						Name of Securities			Relation-		Board,	Owner-		SCA	1
								Dami	ship						
						Exchange		Domi-			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	,	Ť		- ř	
0000			81-5360103				Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership		MIC		
			01 0000 100							Massachusetts Mutual Life Insurance	owner on p				
0000			04-1590850				MM Brookhaven Member LLC	DE	NIA	Company	Ownership		MMLIC		
			04 1000000							Massachusetts Mutual Life Insurance	owner amp				
0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Company	Ownership.		MMLIC		
			04-1090600				WWW East South crossing Weinder LLC	UE		Massachusetts Mutual Life Insurance	owner simp		. WWLIC		
0000			04 4500050					DF			o	00 700	144 10		
0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	Company	Ownership		MMLIC		
0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance		40.007			
0000			80-0948028				One Harbor Shore LLC	DE	NIA	Company	Ownership		MMLIC		
0000			80-0948028				One Harbor Shore LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
	1									Massachusetts Mutual Life Insurance					1
0000			04-1590850				PACO France Logistics LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-3393166				Portland 400 Sixth Manager LLC	DE	NIA	Company	Ownership.		MMLIC		
							Salomon Brothers Commercial Mortgage Trust								
0000							2001-MM	DE	NIA	Barings Real Estate Advisers LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	Company	Ownership	84.200	MLIC		
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
			21-2311120				angrass virrage shopping center LLC	UE	INT M	Massachusetts Mutual Life Insurance			. WWWLIV		
0000	1						STON Halding LLC	DE	NUA		Ownershie		MMLIC		1
							STOA Holding LLC	UE	NIA	Company	Ownership		. MMLIC		
0000			04 5070574					DF		Massachusetts Mutual Life Insurance		05 100			
0000			81-5273574				Three PW Office Holding LLC	DE	NIA	Company	Ownership		MMLIC		
	1									Massachusetts Mutual Life Insurance					1
0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	Company	Ownership		MMLIC		
0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership				
										Massachusetts Mutual Life Insurance					
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	Company	Ownership		MMLIC		
0000		l	45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership.		MMLIC		
										Massachusetts Mutual Life Insurance			]		1
0000			51-0529328		0000927972	00	MassMutual Premier Main Street Fund	MA	NIA	Company	Ownership	90.500	MLIC		
	1						MassMutual Premier Strategic Emerging Markets			Massachusetts Mutual Life Insurance					1
			26-3229251		0000927972	00	Fund	MA	NIA	Company	Ownership		MMLIC		
			20 0223201		0000321312	UV.	1 unu			Massachusetts Mutual Life Insurance	omoronip				
0000			01-0821120		0000916053	00	MassMutual Select Diversified Value Fund	MA	NIA	Company	Ownership.		MMLIC		
			01-0021120		0000910003	UV	massmutual select piversilled value FUND	MA	NIA		Owner Sillp		WWWLIG		
0000	1		04 0540500		0000040050	00	Needlader L Octobert Fund		AU 4	Massachusetts Mutual Life Insurance	0	0 400			1
0000			04-3512593		0000916053	UV	MassMutual Select Fundamental Growth Fund	MA	NIA	Company	Ownership	2.100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			42-1710935		0000916053	UQ	MassMutual Select Mid-Cap Value Fund	MA	NIA	Company	Ownership		MMLIC		
							MassMutual Select Small Capital Value Equity			Massachusetts Mutual Life Insurance					
0000			02-0769954		0000916053	0Q	Fund	MA	NIA	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-3584140		0000916053	0Q	MassMutual Select Small Company Value Fund	MA	NIA	Company	Ownership	9.100	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3347422		0000916053	0Q	2005 Fund	MA	NIA	Company	Ownership				
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
	1		82-3355639		0000916053	00	2010 Fund	MA	NIA	Company	Influence	0.000	MMLIC		1
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance			1		1
0000	1		82-3382389		0000916053	00	2015 Fund	MΔ	NIA	Company	Influence		MIC		1
			02-0002000		00000 10000	UV4			INTA	oompany			mm_IV		

	2	3		5		/	8	9	10	11	12	13	14	15	16
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											of Control	Control			1 1
											(Ownership,	is		ls an	1 1
						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	auired?	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)	*
Code	Gloup Name	Code	Number	ROOD	UIN	international)	MassMutual Select T. Rowe Price Retirement	uon	Linuty	Massachusetts Mutual Life Insurance	Other)	laye		(165/100)	<b>├</b> ──┤
			82-3396442		0000916053	00	2020 Fund	MA	NIA	Company	Influence.				1 1
			02-0000442		0000310033	····	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	IIII I delice				
			82-3417420		0000916053	00	2025 Fund	MA	NIA	Company	Influence		MMLIC		1 1
			02 0111 120			•••	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
			82-3430358		0000916053	0Q	2030 Fund	MA	NIA	Company	Influence		MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1 1
0000			82-3439837		0000916053	0Q	2035 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1 1
0000			82-3451779		0000916053	0Q	2040 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
0000			82-3472295		0000916053	0Q	2045 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance			100 10		1 1
0000			82-3481715		0000916053	00	2050 Fund	MA	NIA	Company	Influence	0.000	. MMLIC		
.0000			82-3502011		0000916053	20	MassMutual Select T. Rowe Price Retirement 2055 Fund	MA	NIA	Massachusetts Mutual Life Insurance	Influence	0.000	188.10		1 1
			82-3502011		0000916053		MassMutual Select T. Rowe Price Retirement	MA	NIA	Company Massachusetts Mutual Life Insurance	Influence	0.000			
.0000			82-3525148		0000916053	00	2060 Fund	MA	NIA	Company	Influence	0.000	MILIC		1 1
			02-3323 140		0000910055	00	MassMutual Select T. Rowe Price Retirement	MA		Massachusetts Mutual Life Insurance	IIII Iuelice				
.0000			82-3533944		0000916053	00	Balanced Fund	MA	NIA	Company	Influence		MMLIC		1 1
			02 0000044		00000100000	ou				Massachusetts Mutual Life Insurance					
0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence		MVLIC		1 1
			10 1207000							Massachusetts Mutual Life Insurance					
			47-3517233				MML Series II Asset Momentum Fund	MA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Company	Influence	0.000			
										Massachusetts Mutual Life Insurance					1 1
0000			47-3544629				MML Series II Equity Rotation Fund	MA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					1 1
0000			47-3559064				MML Series II Special Situations Fund	MA	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance			100 10		1 1
0000			27-1933389		0000916053	00	MassMutual RetireSMART 2035 Fund	MA	NIA	Company	Ownership	2.600	. MMLIC		
0000			07 1000700		0000010050	00	Nearth tool Detine OMPT 0045 Final		NIA	Massachusetts Mutual Life Insurance	0	0,400	100		1 1
0000			27-1932769		0000916053		MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	6.400	. MMLIC		
0000			46-3289207		0000916053	00	MassMutual RetireSMART 2055 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership		MMLIC		1
			40-0209201		00009 10000		massmuluai neliiesmani 2000 Funu	MA	NIA	Massachusetts Mutual Life Insurance	Owner Sillp			[	
			47-5326235		0000916053	00	MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership		MMLIC		1 1
			47-3320233		00003100000					Massachusetts Mutual Life Insurance	owner simp				
			45-1618155		0000916053	00	MassMutual 20/80 Allocation Fund	MA	NIA	Company	Influence		MMLIC		1 1
			10 1010100			vu				Massachusetts Mutual Life Insurance					
0000			45-1618222		0000916053	00	MassMutual 80/20 Allocation Fund	MA	NIA	Company	Ownership				1 1
										Massachusetts Mutual Life Insurance					
0000			03-0532464		0000916053	0Q	MassMutual RetireSMART In Retirement Fund	MA	NIA	Company	Ownership				
										Massachusetts Mutual Life Insurance					
0000			45-1618262		0000916053	0Q	MassMutual 40/60 Allocation Fund	MA	NIA	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance	1				1
0000			45-1618046		0000916053	0Q	MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership		MMLIC		
										1	1		1		<u> </u>

Asterisk	Explanation
1	Massachusetts Mutual Life Insurance Company owns 14.23% of the affiliated debt of Jefferies Finance LLC
2	Debt investors own .6% and includes only Great Lakes III, L.P.
3	Debt investors own 9.6% and includes only Babson Capital Loan Strategies Fund, L.P.
4	Debt investors own .5% and includes only Great Lakes III, L.P.
5	Debt investors own .2% and includes only Great Lakes III, L.P.

## SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

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

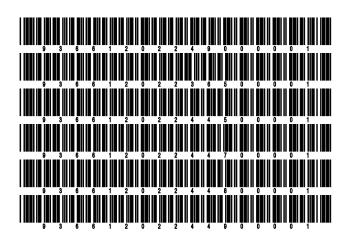
		Response
1.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2.	Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	YES
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.	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. The data for this supplement is not required to be filed.
- 2. The data for this supplement is not required to be filed.
- 3. The data for this supplement is not required to be filed.
- 5. The data for this supplement is not required to be filed.
- 6. The data for this supplement is not required to be filed.
- 7. The data for this supplement is not required to be filed.

Bar Code:

- 1. Trusteed Surplus Statement [Document Identifier 490]
- 2. Medicare Part D Coverage Supplement [Document Identifier 365]
- Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]
- Reasonableness 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]



# STATEMENT AS OF MARCH 31, 2022 OF THE ANNUITY INVESTORS LIFE INSURANCE COMPANY OVERFLOW PAGE FOR WRITE-INS

Additional Write-i	ns for Assets Line 25				
			Current Statement Date	•	4
		1	2	3	December 31
				Net Admitted Assets	Prior Year Net
		Assets	Nonadmitted Assets	(Cols. 1 - 2)	Admitted Assets
2504. Other A	ssets				
2597. Summa	ry of remaining write-ins for Line 25 from overflow page	34,198	12,699	21,499	21,500

Additional Write-ins for Summary of Operat	ions Line 8.3

	1	2	3
	Current Year	Prior Year	Prior Year Ended
	To Date	To Date	December 31
08.304. Miscellaneous income		0	(21,726)
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	25	0	(21,726)

#### SCHEDULE A - VERIFICATION Real Estate

		1	2
		1	Prior Year Ended
		Year to Date	
		fear 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 impainment 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

	Mongage Loans	1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book value/recorded investment excluding accrued interest, 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.	Capitalized deferred interest and other		
4.	Accrual of discount		
5.	Unrealized valuation increase (decrease)		
6.	Total gain (loss) on disposals		
7.	Deduct amounts received on disposals		
8.	Deduct amortization of premium and mortgage in est particular and maintime mees		
9.	Total foreign exchange change in book value/recurred inversionent excercite accrued atterest in the second se		
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)		
12.	Total valuation allowance		
13.	Subtotal (Line 11 plus Line 12)		
14.	Deduct total nonadmitted amounts		
15.	Statement value at end of current period (Line 13 minus Line 14)		

## **SCHEDULE BA - VERIFICATION**

	Other Long-Term Invested Assets	1	2
		I	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		0
	2.1 Actual cost at time of acquisition         2.2 Additional investment made after acquisition	5	0
3.	Capitalized deferred interest and other		0
4.	Accrual of discount		0
5.	Unrealized valuation increase (decrease)		0
6.	Total gain (loss) on disposals		0
7.	Deduct amounts received on disposals		0
8.	Deduct amortization of premium and depreciation		
9.	Total foreign exchange change in book/adjusted carrying value Deduct current year's other than temporary impairment recognized		0
10.	Deduct current year's other than temporary impairment recognized		0
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)		
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)	18,314,667	18,374,319

## **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	2, 196, 456, 865	2,366,835,759
2.	Cost of bonds and stocks acquired		
3.	Accrual of discount	1,506,816	4,436,274
4.	Unrealized valuation increase (decrease)	(215,071)	
5.	Total gain (loss) on disposals		8,734,591
6.	Deduct consideration for bonds and stocks disposed of		
7.	Deduct amortization of premium	1,442,323	2, 136, 290
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized		
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees		
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)		2, 196, 456, 865
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)	2,320,945,142	2,196,456,865

## **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

	During the Current Quarter to		3		5	6	7	8
	Book/Adjusted	۷	3	4	5 Book/Adjusted	b Book/Adjusted	/ Book/Adjusted	o Book/Adjusted
	Carrying Value	Acquisitions	Dispositions	Non-Trading Activity	Carrying Value	Carrying Value	Carrying Value	Carrying Value
	Beginning	During	During	During	End of	End of	End of	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)								1,414,465,576
2. NAIC 2 (a)								
3. NAIC 3 (a)		1,056,540		(3,076,076)	.20,517,276			
4. NAIC 4 (a)		979.552	3, 109, 037	2.224.258	10.005.534			9,910,761
5. NAIC 5 (a)	· · · · · · · · · · · · · · · · · · ·	0	235.133	(799.656)	84.543			1,119,332
6. NAIC 6 (a)	, , , , , , , , , , , , , , , , , , , ,	0	48,555	(698,228)	135,443			882,226
7. Total Bonds	2,337,874,304	929,729,964	919,223,698	7,822,213	2,356,202,783	0	0	2,337,874,304
	2,007,074,004	323,723,304	515,220,000	7,022,210	2,000,202,700	0	U	2,007,074,004
PREFERRED STOCK								
8. NAIC 1				(2,804,539)	0			
9. NAIC 2				(4,502,775)	0			4,502,775
10. NAIC 3				, , , , , , , , , , , , , , , , , , ,	0			,. , ,
11. NAIC 4					0			
12. NAIC 5					0			
13. NAIC 6					0			
14. Total Preferred Stock		0	0	(7,307,314)	0	0	0	7,307,314
15. Total Bonds and Preferred Stock	2,345,181,617	929,729,964	919,223,698	514.899	2,356,202,782	0	0	
13. I Ulai DUNUS ANU PIEIENEU SLUCK	2,040,101,017	525,125,904	515,223,090	514,099	2,000,202,702	0	0	2,040,101,017

(a) Book/Adjusted Carrying Value column for the end of the current reporting period includes the following amount of short-term and cash equivalent bonds by NAIC designation:

## **SCHEDULE DA - PART 1**

Short-Term Investments					
	1	2	3	4	5
					Paid for
	Book/Adjusted			Interest Collected	Accrued Interest
	Carrying Value	Par Value	Actual Cost	Year-to-Date	Year-to-Date
7709999999 Totals	14,972,597	XXX	14,949,211		

#### SCHEDULE DA - VERIFICATION Short-Term Investments

	Short-rem investments	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year		2,999,997
2.	Cost of short-term investments acquired		
3.	Accrual of discount		
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	25	44
6.	Deduct consideration received on disposals		51,999,947
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)	14,972,597	54,921,906

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

Options, Caps, Floors, Collars, Swaps and Forwards

1.	Book/Adjusted Carrying Value, December 31, prior year (Line 10, prior year)	
2.	Cost Paid/(Consideration Received) on additions	2,286,857
3.	Unrealized Valuation increase/(decrease)	(9,766,431)
4.	SSAP No. 108 adjustments	
5.	Total gain (loss) on termination recognized	3, 136, 071
6.	Considerations received/(paid) on terminations	
7.	Amortization	(2,628,190)
8.	Adjustment to the Book/Adjusted Carrying Value of hedged item	
9.	Total foreign exchange change in Book/Adjusted Carrying Value	
10.	Book/Adjusted Carrying Value at End of Current Period (Lines 1+2+3+4+5-6+7+8+9)	4,775,944
11.	Deduct nonadmitted assets	
12.	Statement value at end of current period (Line 10 minus Line 11)	4,775,944

## **SCHEDULE DB - PART B - VERIFICATION**

Futures Contracts

1. Book/Adjusted carrying value, December 31 of prior year (Line 6, prior year)....

#### 2. Cumulative cash change (Section 1, Broker Name/Net Cash Deposits Footnote - Cumulative Cash Change column) ....

#### 3.1 Add:

Change in variation margin on open contracts - Highly Effective Hedges

- 3.11 Section 1, Column 15, current year to date minus .....
- 3.12 Section 1, Column 15, prior year ...
  - Change in variation margin on open contracts All Other
- 3.13 Section 1, Column 18, current year to date minus ......
- 3.14 Section 1, Column 18, prior year ...

#### 3.2 Add:

Change in adjustment to basis of hedged item

- 3.21 Section 1, Column 17, current year to date minus
- 3.22 Section 1, Column 17, prior year .....
- Change in amount recognized
- 3.23 Section 1, Column 19, current year to date n
- 3.24 Section 1, Column 19, prior year plus .....
- 3.25 SSAP No. 108 adjustments ...
- 3.3 Subtotal (Line 3.1 minus Line 3.2) .....
- 4.1 Cumulative variation margin on terminated contracts during the year ...
- 4.2 Less:

	4.21 Amount used to adjust basis of hedged item
	4.22 Amount recognized
	4.23 SSAP No. 108 adjustments
4.3	Subtotal (Line 4.1 minus Line 4.2)
5.	Dispositions gains (losses) on contracts terminated in prior year:
	5.1 Total gain (loss) recognized for terminations in prior year
	5.2 Total gain (loss) adjusted into the hedged item(s) for terminations in prior year
6.	Book/Adjusted carrying value at end of current period (Lines 1+2+3.3-4.3-5.1-5.2)
7.	Deduct total nonadmitted amounts

.....

NF

8. Statement value at end of current period (Line 6 minus Line 7) .....

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

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

### **SCHEDULE DB - VERIFICATION**

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

		Book/Adjusted Carrying Value	Check
1.	Part A, Section 1, Column 14	4,775,944	
2.	Part B, Section 1, Column 15 plus Part B, Section 1 Footnote - Total Ending Cash Balance	0	
3.	Total (Line 1 plus Line 2)		4,775,944
4.	Part D, Section 1, Column 6		
5.	Part D, Section 1, Column 7	0	
6.	Total (Line 3 minus Line 4 minus Line 5)		0
		Fair Value Check	
7.	Part A, Section 1, Column 16		
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)		4,775,944
10.	Part D, Section 1, Column 9	4,775,944	
11.	Part D, Section 1, Column 10	0	
12	Total (Line 9 minus Line 10 minus Line 11)		0
		Potential Exposure Chec	k
13.	Part A, Section 1, Column 21	0	
14.	Part B, Section 1, Column 20		
15.	Part D, Section 1, Column 12	0	
16.	Total (Line 13 plus Line 14 minus Line 15)		0

#### SCHEDULE E - PART 2 - VERIFICATION (Cash Equivalents)

	, , , , , , , , , , , , , , , , , , ,	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year		
2.	Cost of cash equivalents acquired		
3.	Accrual of discount		
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals		
6.	Deduct consideration received on disposals		2,122,942,065
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)	89,963,942	163,246,612

Schedule A - Part 2 - Real Estate Acquired and Additions Made

## ΝΟΝΕ

Schedule A - Part 3 - Real Estate Disposed **NONE** 

Schedule B - Part 2 - Mortgage Loans Acquired and Additions Made **NONE** 

Schedule B - Part 3 - Mortgage Loans Disposed, Transferred or Repaid **NONE** 

Schedule BA - Part 2 - Other Long-Term Invested Assets Acquired and Additions Made **NONE** 

Schedule BA - Part 3 - Other Long-Term Invested Assets Disposed, Transferred or Repaid

## ΝΟΝΕ

## **SCHEDULE D - PART 3**

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

	-		SHOW AIL	ong-rem Bonds and Stock Acquired During the Current Quarter					
1	2	3	4	5	6	7	8	9	10 NAIC Designation, NAIC Designation
CUSIP Identification	Description	Foreign	Date Acquired	Name of Vendor	Number of Shares of Stock	Actual Cost	Par Value	Paid for Accrued Interest and Dividends	Modifier and SVO Admini- strative Symbol
039937-AE-7	ARES CLO-ARES 2022-63A B1		03/10/2022	SG COWEN SECURITIES					1.C FE
08186U-AN-2	Benefit Street Partners- BSP 2020-22A BR		02/18/2022	CITIGROUP GLOBAL MAR					1.D Z
48255P-AC-9	KKR CLO 41 Ltd-KKR 2022-41A B		02/09/2022	CREDIT SUISSE SECURI			2,000,000		1.D Z
82671C-AC-3 87168Y-AE-0	Signal Peak CLO 10 Ltd-SPEAK 2021-10A B Symphony CLO Ltd-SYMP 2022-31A B		03/01/2022	RBC CAPITAL MARKETS					1.C FE 1.D Z
984851-AG-0	Yara International ASA-SENIOR UNSECURED			JP MORGAN SECURITIES		4,747,250	5.000.000	45.296	
	Subtotal - Bonds - All Other Governments					12.590.050	12.850.000	49,193	
03099999999. 2 00440E-AH-0	CHUBB INA HOLDINGS INC-SENIOR UNSECURED	1	00/00/0000	DAIWA SECURITIES AME					
00440E-AH-0 00846U-AN-1	GHUBB INA HULDINGS INC-SENIUR UNSECURED		03/03/2022	UATWA SECURITIES AME					1.F FE 2.A FE
008460-AN-1 015271-AR-0	Agilent lechnologies Inc-SENIUR UNSECURED Alexandria Real Estate E-SENIOR UNSECURED		03/04/2022	CITIGHOUP GLOBAL MAR		1, 125, 408			2.A FE 2.A FE
03522A-AH-3	Anteuser-Busch Cos LLC /-SENIOR UNSECURED			BRILEY		4,548,960	4,000,000	0,008 5,009	2.8 FE
054977-AD-5	BHG Securitization Trust-BHG 2022-A D			CREDIT SUISSE SECURI		1,898,965	1,900,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.G FE
054977-AE-3	BHG Securitization Trust-BHG 2022-A E		01/25/2022	CREDIT SUISSE SECURI			4, 150,000		2.B FE
05874W-AC-5	Ballyrock CLO 19 Ltd-BALLY 2022-19A A2		03/03/2022	NORGAN					1.D Z
058931-AT-3	Banc of America Funding -BAFC 2006-3 4A11		01/10/2022	CREDIT SUISSE SECURI					3.B FM
05949T-AX-7	Banc of America Funding -BAFC 2006-1 1A23		01/10/2022	CREDIT SUISSE SECURI					1.A FM
090572-AQ-1	Bio-Rad Laboratories Inc-SENIOR UNSECURED		03/15/2022	VARIOUS		5,924,674			2.B FE
10922N-AG-8	Brighthouse Financial In-SENIOR UNSECURED		02/09/2022	MORGAN		5,751,850			2.B FE
12544D-AG-4	CHL Mortgage Pass-Throug-CWHL 2007-14 A7		01/10/2022	CREDIT SUISSE SECURI					3.B FM
12545E-AK-2	CHL Mortgage Pass-Throug-CWHL 2007-J2 2A9		01/10/2022	CREDIT SUISSE SECURI					3.B FM
12659J-AE-7	COLEM 2021-HLNE Mortgage-COLEM 2022-HLNE B		03/01/2022	BARCLAYS CAPITAL INC					1.D FE
12659J-AJ-6 126694-CS-5	COLEM 2021-HLNE Mortgage-COLEM 2022-HLNE D CHL Mortgage Pass-Throug-CWHL 2005-21 A14		03/01/2022	BARCLAYS CAPITAL INC CREDIT SUISSE SECURI					2.A FE 4.B FM
126694-HP-6	CHL Mortigage Pass-Throug-CWHL 2005-21 A14 CHL Mortigage Pass-Throug-CWHL 2005-25 A10		01/10/2022	CREDIT SUISSE SECURI					4.B FM
126694-LC-0	CHL Mortgage Pass-Throug-CWHL 2005-25 A10 CHL Mortgage Pass-Throug-CWHL 2005-24 A36		01/10/2022	CREDIT SUISSE SECURI					3.B FM
12669G-3S-8	CHL Mortgage Pass-Throug-CWHL 2005-16 A24		01/10/2022	CREDIT SUISSE SECURI		200, 344	242.427		3.B FM
12669G-4K-4	CHL Mortgage Pass-Throug-CWHL 2005-J3 1A2		.01/10/2022	CREDIT SUISSE SECURI					1.D FM
17025A-AH-5	CHL Mortgage Pass-Throug-CWHL 2006-17 A8			CREDIT SUISSE SECURI			.137 . 194		4.B FM
171232-AQ-4	CHUBB CORP-SR UNSECURED			WELLS FARGO			2,350,000		1.F FE
172967-MP-3	Citigroup Inc-SENIOR UNSECURED			CITIGROUP GLOBAL MAR		5,455,200			1.G FE
18977W-2C-3	CNO Global Funding-SECURED		03/16/2022	GOLDMAN		6,543,018			1.G FE
20030N-AK-7	Comcast Corp-SR UNSECURED		02/08/2022	JP MORGAN SECURITIES		6,249,010			1.G FE
20754L-AB-5	Connecticut Avenue Secur-CAS 2022-R01 1M2		02/08/2022	BOFAMLSEC					2.B FE
225458-L5-5	Credit Suisse First Bost-CSFB 2005-7 1A10		01/11/2022						3.B FM
283695-BQ-6	El Paso Natural Gas Co L-SENIOR UNSECURED		02/01/2022	JP MORGAN SECURITIES				455 400	2.B FE
293791-AF-6 31573C-AD-7	Enterprise Products Oper-SENIOR UNSECURED Ellington Financial Mort-EFMT 2022-1 M1		02/08/2022	GULDMAN					2.A FE 2.B FE
35564K-PV-5	Freddie Mac Structured A-STACR 2022-DNA1 M1B		01/18/2022	NOMURA SECURITIES IN					2.B FE
36143L-2H-7	GA Global Funding Trust-SECURED		01/18/2022	NORIGAN SECURITIES IN			4,000,000		
361448-BG-7	GATX Corp-SENIOR UNSECURED		03/04/2022	CITIGROUP GLOBAL MAR					2.B FE
36242D-VA-8	GSR Mortgage Loan Trust -GSR 2005-1F 1A6			CREDIT SUISSE SECURI					1.D FM
38141G-XG-4	Goldman Sachs Group Inc/-SENIOR UNSECURED		01/10/2022	NORGAN			1,000,000		1.F FE
466247-ZP-1	JP Morgan Mortgage Trust-JPMMT 2005-S3 1A2		03/03/2022	CREDIT SUISSE SECURI					3.B FM
46630W-AL-4	JP Morgan Mortgage Trust-JPMMT 2007-S2 1A11		01/10/2022	CREDIT SUISSE SECURI					4.B FM
466365-AD-5	Jack in the Box Funding -JACK 2022-1A A21		01/10/2022	GUGGENHEIM CAPITAL M					2.B FE
46817M-AK-3	Jackson Financial Inc-SENIOR UNSECURED		02/08/2022	MORGAN		4,814,000			
472321-AH-1	Jefferies Resecuritizati-JMAC 2008-R2 2A3		03/01/2022	PAYUP					1.D FM
472321-AK-4	Jefferies Resecuritizati-JMAC 2008-R2 3A2		01/01/2022	РАУИР		4 500 000		10.075	1.D FM
49271V-AN-0 49456B-AG-6	Keurig Dr Pepper Inc-SENIOR UNSECURED KINDER MORGAN INC/DELAWA-SENIOR UNSECURED		03/03/2022			1,592,900			
49456B-AG-6 534187-BJ-7	KINDER MURGAN INC/DELAWA-SENTOR UNSECURED		02/08/2022	RBC CAPITAL MARKETS					2.B FE 2.A FE
548661-DU-8	Lincoln National Corp-Seniuk UNSECURED		03/16/2022	UNP PARTBAS					2.A FE 2.A FE
570535-AU-8	Markel Corp-SENIOR UNSECURED		03/16/2022	GOLDMAN			1,800,000		2.8 FE
617446-8U-6	Morgan Stanley-SENIOR UNSECURED		03/16/2022	NORGAN		3,679,329	4,200,000	6 394	1.F FE
61754P-AA-2	Morgan Stanley-SENIOR UNSECURED		01/10/2022	CREDIT SUISSE SECURI					1.D FM
64016N-AC-1	Neighborly Issuer 2022-1-NBLY 2022-1A A2		.01/11/2022	IN-KIND TRANSFER		7.000.000	7.000.000		2.B Z
	· · · · · · · · · · · · · · · · · · ·					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

## **SCHEDULE D - PART 3**

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

		· · ·	OHOW AIL		1		-	-	
1	2	3	4	5	6	7	8	9	10
									NAIC
									Designation,
									NAIC
									Designation
									Modifier
									and
									SVO
					Number of			Paid for Accrued	Admini-
CUSIP			Date		Shares of			Interest and	strative
Identification	Description	Foreign	Acquired	Name of Vendor	Stock	Actual Cost	Par Value	Dividends	Symbol
67103H-AK-3	O'Reilly Automotive Inc-SENIOR UNSECURED		03/04/2022	CITIGROUP GLOBAL MAR		1,530,561	1,700,000		2.B FE
67181D-AG-6	Oak Street Investment Gr-OAKIG 2020-1A B1		02/18/2022	CREDIT SUISSE SECURI					2.A FE
67448D-AC-4	OBX 2022-NQM2 Trust-OBX 2022-NQM2 A3		02/18/2022	BARCLAYS CAPITAL INC					1.F FE
718546-AK-0	Phillips 66-SENIOR UNSECURED		02/08/2022	BARCLAYS CAPITAL INC		5,621,100			2.A FE
743315-AL-7	PROGRESSIVE CORP-SENIOR UNSECURED		03/03/2022	WELLS FARGO			1,400,000		1.F FE
74333Y-AJ-7	Progress Residential 202-PROG 2022-SFR1 E1		01/27/2022	BARCLAYS CAPITAL INC					2.A FE
79588T-AD-2	Sammons Financial Group -SENIOR UNSECURED		02/09/2022	GOLDMAN					2.A FE
828807-DQ-7	Simon Property Group LP-SENIOR UNSECURED		03/04/2022	VARIOUS		1,582,882	1,700,000		1.G FE
84861T-AD-0	Spirit Realty LP-SENIOR UNSECURED		03/03/2022	NORGAN		2, 100, 440			2.B FE
865592-AG-4	SUMIT 2022-BVUE Mortgage-SUMMT 2022-BVUE C		01/12/2022	BARCLAYS CAPITAL INC					1.E FE
865592-AJ-8	SUMIT 2022-BVUE Mortgage-SUMMT 2022-BVUE D		01/12/2022	BARCLAYS CAPITAL INC		1,940,148			2.A FE
87222E-AB-4	TBW Mortgage-Backed Trus-TBW 2007-1 A2		01/10/2022	CREDIT SUISSE SECURI			1,695,306		1.D FM
87222E-AC-2	TBW Mortgage-Backed Trus-TBW 2007-1 A3		01/10/2022	CREDIT SUISSE SECURI					1.D FM
872635-AC-1 90265E-AV-2	TRK 2022-INV1 Trust-TRK 2022-INV1 A3		02/02/2022	MORGAN					1.G FE 2.A FE
90265E-AV-2 91159H-JB-7	UUR INC-SENIUR UNSECURED		03/04/2022 03/04/2022	U. S. BANCORP		2,248,675 	2,500,000 1,000,000		1.F FE
91913Y-BC-3	Valero Energy Corp-SENICE UNSECURED			RBC CAPITAL MARKETS			2,000,000		2.B FE
92343V-CQ-5	Valero Energy Corp-SENICH UNSECURED			MILLENNIUM ADVISORS					2.8 FE
92556H-AD-9	ViacomCBS Inc-SENIOR UNSECURED			GOLDMAN			10.000.000		2.8 FE
92928Q-AF-5	WEA Finance LLC-SENIOR UNSECURED		03/15/2022	CITIGROUP GLOBAL MAR		1.933.220	2.000.000		2.B FE
92940P-AG-9	WRKCO Inc-SENIOR UNSECURED		03/03/2022	U. S. BANCORP			470.000	2 212	2.B FE
98920M-AA-0	ZAXBY'S FUNDING LLC-ZAXBY 2021-1A A2			D. S. BRINCONF		3.910.853	4.044.675		2.B FE
	Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)			1 99, THE DEV		207,694,468	207,904,270	1.113.658	
	Total - Bonds - Part 3					2207,034,408	220,754,270	1,162,851	XXX
	Total - Bonds - Part 5					XXX	XXX	XXX	XXX
25099999999.						220,284,518	220,754,270	1, 162, 851	XXX
	otal - Dolius					220,284,518	220,754,270 XXX	1, 162,851	XXX
	otal - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX
	otal - Preferred Stocks - Part 5					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	XXX	^	XXX
	otal - Preferred Stocks otal - Common Stocks - Part 3					0	XXX XXX	0	XXX XXX
						0		0	
	otal - Common Stocks - Part 5					XXX	XXX	XXX	XXX
	otal - Common Stocks					0	XXX	0	XXX
	otal - Preferred and Common Stocks					0	XXX	0	XXX
6009999999 -	I otals					220,284,518	XXX	1,162,851	XXX

## **SCHEDULE D - PART 4**

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1	2	3 4	5	6 7	8	9	10			ok/Adjusted	- 1 3		16	17	18	19	20	21	22
								11	12	13	14	15							NAIC
																			Desig-
																			nation.
																			NAIC
											Total	Total							Desig-
										Current							Bond		nation
										-	Change in	Foreign							
										Year's	Book/	Exchange	Book/				Interest/		Modifier
							Prior Year		Current	Other Than	Adjusted	Change in	Adjusted	Foreign			Stock	Stated	and
							Book/	Unrealized		Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
														0		TILO			-
CUSIP				Number of			Adjusted	Valuation	(Amor-	Impairment	Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For- Disposal	Name	Shares of Consid	-	Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign Date	of Purchaser	Stock eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	<b>`</b> 13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
moduon		cigit Date				0031	Value	(Decrease)	Accretion	Tilzeu	13)	value	Dute	Disposal	Disposal	Disposal	rca	Dute	Cymbol
	ALIBABA GROUP HOLDING-SR																		
	UNSECURED		. JP MORGAN SECURITIES	1,007,											7,992	7,992	11,400	11/28/2024	. 1.E FE
	BFNS 2017-1-BFNS 2017-1A AR		PAYDOWN		09						0					0	7 , 390	01/25/2029	. 1.B FE
	BDS 2019-FL4																		
05492K-AA-7	LTD-BDS 2019-FL4 A		PAYDOWN		21											0		08/15/2036	. 1.A FE
	BDS 2020-FL5												,						
	LTD-BDS 2020-FL5 A	03/18/2022	PAYDOWN		26			1	(427)		(427)			1		0			1.A FE
	BSPRT 2018-FL4																		
		00/15/0000	DAVDOWN	070	40 070 040	070 040	070 040	1		1			070 040	1		_	F 47	00/15/0005	1.4.55
	Issuer Lt-BSPRT 2018-FL4 A		. PAYDOWN		42270,842						2	• • • • • • • • • • • • • • • • • • • •				0		09/15/2035	. I.A FE
	BSPRT 2018-FL4							1						1					
05586A-AC-2	Issuer Lt-BSPRT 2018-FL4 AS		PAYDOWN		03				71		71					0	2,243	09/15/2035	1.A FE
	BSPRT 2019-FL5							1											1
05587T-AA-4	Issuer Lt-BSPRT 2019-FL5 A		PAYDOWN		10	1,823,204			(239)		(239)		1,822,610			0		05/15/2029	1.A FE
056752-AN-8	Baidu Inc-SENIOR UNSECURED		BARCLAYS BANK PLC		00	1,990,920	1,993,386						1,993,558				34,667		1.G FE
	Ellington Clo II																		
	Ltd-ECL0 2017-2A A		PAYDOWN		83											0	1,430	02/15/2029	1.A FE
																0			
	FS Rialto2019-FL1-FSRIA2019-FL1 A		PAYDOWN					•••••			0	•••••			• • • • • • • • • • • • • • • • • • • •	0	1,897	12/16/2036	. 1.A FE
	GoldenTree CreditOpport-GTCOP2012-1A A2R		PAYDOWN								0					0		06/15/2034	1.A FE
390556-AL-2	Great Lakes CLO2014-1 L-GRTLK2014-1A AR		PAYDOWN		82				(16)		(16)					0	1,814	10/15/2029	. 1.A FE
	Hildene TruPS Securitiza-HITR																		
43133J-AA-6	2019-2A A1		PAYDOWN		31											0		05/22/2039	1.C FE
44040H-AA-0	Horizon Aircraft Finance-HORZN 2019-1 A		PAYDOWN		00 8.400		.8,400				0		.8,400			0	56	07/15/2039	2.A FE
	Ivy Hill Middle Market C-IVYH 9A AR		PAYDOWN			1,000,000							1,000,000			0	4.018		1.A FE
	Jamestown CLO V Ltd-JTWN 2014-5A B2R		PAYDOWN						(17)							0		01/17/2027	
4/04/J-AIT-2	KDAC Aircraft Finance Lt-SERIES 17-1A CLASS A		PAIDOIN		41200,041				(17)		(17)					0			
100117 11 0	NDAG AIFCEATE FINANCE LE-SERIES 17-1A GLASS A	00 (15 (0000	DUVDOWN	10		10.000	10.005						40.005				0.15	10 /15 /00 10	
48244X-AA-0			PAYDOWN	40,							0					0			. 3.C FE
49255P-AA-1	Kestrel Aircraft Funding-KSTRL 2018-1A A		PAYDOWN		33				697		697					0		12/15/2038	. 2.B FE
	LoanCore 2018-CRE1 Issue-LNCR																		
53946M-AA-5	2018-CRE1 A		PAYDOWN		80						1,425					0		05/15/2028	. 1.A FE
59319W-AA-9	MF1 2020-FL3 Ltd-MF1 2020-FL3 A		PAYDOWN								0					0	1,594		1.A FE
	Newfleet CLO 2016-1 Ltd-NEWFL 2016-1A A2R		PAYDOWN						3		3					0		04/20/2028	
	One Eleven Funding III																		
	L-OELF 2019-3A A1		BAIRD		00	2,000,000	2,000,000	1			^		2,000,000					07/19/2037	1.A FE
			. DAINU			2,000,000	2,000,000				······		2,000,000						. I.A FE
	PFP 2019-5 Ltd-PFP	00/10/0777	DAVDOWN			400	100	1		1			400	1		1 -			4.1.55
	2019-5 A		. PAYDOWN		72						0					0		04/14/2036	. 1.A FE
	Pioneer Aircraft Finance-SERIES 19-1 CLASS A							1											1
72353P-AA-4			PAYDOWN		30						0					0		06/15/2044	2.B FE
	SAPPHIRE AVIATION FINANC-SAPA		1					1											
80306A-AA-8	2018–1A A		PAYDOWN		28			1	4	1	4			1		0	85	03/15/2040	2.B FE
	Saranac CLO III								······										
	Ltd-SRANC 2014-3A AFR		BNP PARIBAS		06	2,963,775	2,964,037	1	(01)	]	(31)		2,964,005	1		0 000	26.588	06/00/0020	1 A EE
									(31)						2,200	2,200			1.A FE
	TPG Real Estate Finance -TRTX 2018-FL2 A		PAYDOWN			8,849,127	9, 185,665						9,205,854						. 1.A FE
88032W-AG-1	Tencent Holdings Ltd-SENIOR UNSECURED		. JP MORGAN SECURITIES	4,949,			4,999,249		(87)		(87)		4,999,162		(49,362)	(49,362)		01/19/2028	. 1.E FE
	TruPS Financials Note Se-TFINS 2017-2A A1		PAYDOWN						3,010		3,010					0			1.D FE
89820X-AA-6	TruPS Financials Note Se-TFINS 2020-2A A1		PAYDOWN		77						0					0		07/15/2041	1.C FE
	TruPS Financials Note		CA_CASH_CLOS			1		1					· ·						
	Se-TFINS 2019-1A A1	02/01/2022	IE		63 5.863	5,863	5,863	1			٥		5.863	1		0		02/02/2039	1.C FE
	TruPS Financials Note Se-2020-1A A1	01/18/2022	PAYDOWN								0					n		04/15/2040	
				109,															
	WhiteHorse X	04 /47 /0000	DAVDOWN	150	450.005	450.005	450.005	1		1	_		450.005	1		_	4.010	04/47/0007	4.4.55
	Ltd-WITEH 2015-10A B2		. PAYDOWN								0					·····.0	4,613	04/17/2027	. 1.A FE
030999999	<ol><li>Subtotal - Bonds - All Other Govern</li></ol>	nments		32,742,	96 32,637,335	32,206,293	32,592,084	0	37,641	0	37,641	0	32,629,723	0	112,372	112,372	260,921	XXX	XXX
	Consolidated Government					. , , ,		1						-		1	,		
071239-DB-0	-REVENUE BONDS	01/15/2022	CALL 100	1.000.	00 1.000.000	1.000.000	1,000,000	1		1	0		1,000,000	1		0	22.850		1.D FE
0			. OTILL 100													L0	£2,0JU		

## **SCHEDULE D - PART 4**

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1	2	3	4	5	6	7	8	9	10	Cr	nange In Bo	ok/Adjusted Carrying Va	lue	16	17	18	19	20	21	22
										11	12	13 14	15							NAIC
																				Desig-
																				nation,
																				NAIC
												Total	Total							Desig-
																		Bond		nation
												Current Change in								
												Year's Book/	Exchange	Book/				Interest/		Modifier
									Prior Year		Current	Other Than Adjusted	Change in	Adjusted	Foreign			Stock	Stated	and
									Book/	Unrealized	Year's			Carrying	Exchange	Realized		Dividends	Con-	SVO
													Book	, ,			<b>T</b> ( ) <b>O</b> (			-
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog- (11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized 13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
modulon		oigii	Duto		Otook	oration		0000	Value	(Decircuse)	71001011011	Thized To)	Value	Duto	Diopodal	Diopodai	Diopodai	roui	Duto	Cymbol
	Freddie Mac		00/04/0000	DAVDOWN		110.050	440.050				(1.074)	(1.074)		440.050						
3133N3-U9-3	Pool-FREDDIE MAC POOL-FR RE6008		03/01/2022	PAYDOWN							(1,674)	(1,674)					0		11/01/2049	. 1.A
	Freddie Mac																			
3133N3-X2-5	Pool-FREDDIE MAC POOL-FR RE6097		03/01/2022	PAYDOWN													0		05/01/2051 .	. 1.A
	Freddie Mac	1		1						1	1									
3133N3-X3-3	Pool-FREDDIE MAC POOL-FR RE6098		03/01/2022	PAYDOWN							(4,094)	(4,094)					0		05/01/2051	. 1.A
	Freddie Mac	1		1							1									
3133N3-XX-7	Pool-FREDDIE MAC POOL-FR RE6094	1	03/01/2022	PAYDOWN													0		04/01/2051	1.A
	Fannie Mae											2,5/0		200,300						
212020 00 4		1	02/01/2022			100	100	100	100		-			100				•	05/01/2024	1 A
31383S-RS-1	Pool-P00L #511797		03/01/2022	PAYDOWN		166						3					0	2	05/01/2031 .	. 1.A
	Fannie Mae	1		DAVDOWN																L. 1
31406J-2L-6	Pool-POOL #811779		03/01/2022	PAYDOWN		1,210	1,210	1,230		•••••	325			1,210			0	11	01/01/2035 .	. 1.A
	Fannie Mae																			
3140HN-LY-6	Pool-P00L #BK8442		03/01/2022	PAYDOWN							(188)						0		01/01/2051	. 1.A
	Fannie Mae																			
3140K0-EL-8	Pool-POOL #B04638		03/01/2022	PAYDOWN							(93)						0		11/01/2049 .	1.A
	Fannie Mae										(00)	(00)								
21/00P_NE_2	Pool-POOL #CA4011		03/01/2022	PAYDOWN							(357)						0		08/01/2049	1.A
				PAIDOIN							(337)	(357)				•••••	0			
011000 DT 0	Fannie Mae		00/04/0000	DAVDOWN		100 110	100 110	105 011			(1.000)	(1.000)		100 110				4 000		
3140QC-DT-0	Pool-POOL #CA4613		03/01/2022	PAYDOWN							(1,690)	(1,690)					0	1,000	11/01/2049 .	. 1.A
	Fannie Mae																			
	Pool-POOL #MA4319		03/01/2022	PAYDOWN							664	664					0		04/01/2051 .	. 1.A
56052F-BC-8	Maine State Housing Auth-REVENUE BONDS		02/24/2022	CALL 100							(4)	(4)						4,491	11/15/2030	. 1.B FE
649902-87-9	New York State Dormitory-REVENUE BONDS			MATURITY		2,000,000						0					0		03/15/2022	. 1.B FE
	Ohio Higher Educational																			
67756A-2P-6	-REVENUE BONDS		01/01/2022	MATURITY		1,000,000		1,000,000	1,000,000			0		1,000,000			0		01/01/2022	. 1.C FE
	United States Internatio-UNSECURE D		02/27/2022	SINKING PAYMENT							(13)						0		02/27/2027	1.A
	United States Internatio-SENIOR UNSECURED		03/15/2022	SINKING PAYMENT							(10)						0			1 A
				STINCING PATMENT																
	<ol><li>Subtotal - Bonds - U.S. Special Re</li></ol>	evenue				5,864,967	5,864,967	5,870,974	5,868,713	0	(3,757)	0 (3,757)	0	5,864,954	0	13	13	99,680	XXX	XXX
	AASET 2017-1 TRUST-SERIES 17-1A CLASS A			PAYDOWN								0					0	101		. 2.B FE
	Aaset 2019-2 Trust-AASET 2019-2 A		03/16/2022	PAYDOWN			6,292	6,292				0		6,292			0	41	10/16/2039	. 2.A FE
	AMC East Communities LLC-SECURED			SINKING PAYMENT							(1,715)	(1,715)					0			
	APS Resecuritization										,	]								
00192J-AA-4	Tru-APS 2016-1 1A	1	03/01/2022	PAYDOWN						1							0	17	07/01/2057	. 1.A FE
	AREIT 2019-CRE3																0			
00217L-AA-0	Trust-AREIT 2019-CRE3 A	1		PAYDOWN				. 191, 455		1	1	0								1.A FE
	AASET 2020-1											+0					0			
0005511 11 5		1	00 /45 /0005	DAVDOWN				~~ ~~	~~ ~~~			_					-		04 (40 (00 10	0.1.55
00255U-AA-3	Trust-AASET 2020-1A A		03/15/2022	PAYDOWN								·····0					0	76	01/16/2040 .	. 2.A FE
	ACCREDITED MORTGAGE	1		1						1	1									
004375-FG-1	LOAN-ACCR 2006-1 A4			PAYDOWN							3, 103						0		04/25/2036	. 1.A FM
	ADAMS OUTDOOR ADV SECD REV NT SER 2018-1 CL A	1																		
006346-AS-9			03/15/2022	PAYDOWN							(42)						0		11/15/2048 .	. 1.F FE
007036-GS-9	Adjustable Rate Mortgage-ARMT 2005-2 2A1	I	03/01/2022	PAYDOWN												L	0			1.A FM
	Alternative Loan Trust 2-CWALT 2006-26CB											1								
02147W-AT-6	A18	1		PAYDOWN		3,265				1							0	46		4.B FM
02377B-AB-2	AMER AIRLN 15-2 AA PTT-FIRST LIEN		03/22/2022	SINKING PAYMENT							(13)	(13)					0			. 2.A FE
	AMERICAN AIRLINES 2013-2-FIRST LIEN		01/15/2022	SINKING PAYMENT		10,421	10,421		10,424	• • • • • • • • • • • • • • • • • • • •	(3)			10,421			0			. 3.B FE
02660L-AA-8	American Home Mortgage A-AHMA 2006-4 1A11		03/25/2022	PAYDOWN		5,995	5,995	4,496	3,095		2,900	2,900		5,995			0		10/25/2046	. 1.D FM
1	AMERICAN HOMES 4 RENT-SERIES	1	1								1									
02665U-AA-3	2014-SFR2 CLASS A		03/01/2022	PAYDOWN		5,556	5,556	5,555	5,549		6			5,556			0		10/01/2036	. 1.A FE
	American Homes 4 Rent 20-AH4R 2014-SFR3 A		03/01/2022	PAYDOWN							(32)						0			
1	American Homes 4											(02)								
026664-44-6	Rent 20-AH4R 2015-SFR1 A	1	03/01/2022	PAYDOWN		13.275		13.274			15						0	83		1.A FE
		1																		1 **** ( <b>F</b> *****

## **SCHEDULE D - PART 4**

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1	2	3 4	5	6	7	8	9	10	Ch	nange In Bo	ok/Adjusted	Carrying Value	16	17	18	19	20	21	22
									11	12	13	14 15							NAIC
										12	15	14 15							-
																			Desig-
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																			NAIC
												Total Total							Deela
												Total Tota							Desig-
											Current	Change in Foreig	n				Bond		nation
																	Interest/		Modifier
											Year's	Book/ Exchan							
								Prior Year		Current	Other Than	Adjusted Change	in Adjusted	Foreign			Stock	Stated	and
									Lines all and					0	Dealized		Dividends	Con-	SVO
								Book/	Unrealized	Year's	Temporary	Carrying Book		Exchange	Realized				-
CUSIP				Number of				Adjusted	Valuation	(Amor-	Impairment	Value /Adjust	d Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		Car Dianagal	Mama		Consid		Astual												
Ident-		For- Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 - Carryir	g Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13) Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
moutori		oigii Dato	or r aronador	otoon	oradon	i ai taiao	0000	Value	(100010000)	71001011011	mzou	10) Value	Buto	Diopoodi	Biopoodi	Diopoodi		Date	0,
	AMERICAN HOMES 4 RENT-SERIES																		
02666B-AA-4	2015-SFR2 CLASS A		PAYDOWN		2,094	2,094	2,094			1						0		10/01/2052	1.A FE
02666B-AG-1	American Homes 4 Rent 20-AH4R 2015-SFR2 XS	.03/01/2022	PAYDOWN					0				0				0		10/01/2052	. 6. *
	Apache Corp-SENIOR		CA_CASH_CLOS																
			CA_CASH_CLUS																
	UNSECURED		E		1,563,750		1,497,675											10/15/2028	3.A FE
038370-AA-0	Aqua Finance Trust 2019AQFIT 2019-A A		PAYDOWN													0		07/16/2040	1.F FE
	Aqua Finance Trust 2020AQFIT 2020-AA A	03/17/2022	PAYDOWN		143,287	143,287		143,263		24	1		143,287			0	.445	07/17/2046	1.F FE
	ATHENE GLOBAL FUNDING-SECURED		MATURITY							74		17		[					
			MATURITT			4,000,000	3,998,760					·······		····· ·		0		01/25/2022	1.E FE
	BCAP LLC 2010-RR12				1	1				1	1	1		1		1			
05533N-AJ-3	Trust-BCAP 2010-RR12 1A9		PAYDOWN						L										3.B FM
	BCAP LLC 2012-RR8 Trust-BCAP 2012-RR8 4A3		PAYDOWN							1,554		1,554				۰ ۱	21	11/20/2036	1.A FM
					40,300			HJ, HUZ	•••••										
	Banc of America																		
058931-AD-8	Funding -BAFC 2006-3 2A1		PAYDOWN			5,340	4,355									0		03/01/2036	1.D FM
	Banc of America Funding -BAFC 2006-3 4A11		PAYDOWN					0		415		415				0	85	.03/01/2036	3.B FM
						45 474		14 704		467						0	58		
	Banc of America Mortgage-BOAMS 2005-A 2A1		PAYDOWN		15, 1/ 1		14,669	14,704								0		02/01/2035	. 1.A FM
	Banc of America																		
05949A-H9-4	Mortgage-BOAMS 2005-A 2A2	.03/01/2022	PAYDOWN		13,275											0	51	02/01/2035	1.A FM
			PAYDOWN														12		3.B FM
	Banc of America Mortgage-BOAMS 2005-8 A9				638	1,451	1,396	1,364			•••••								
05949C-HM-1	Banc of America Mortgage-BOAMS 2005-1 1A1		PAYDOWN		3,705	4,356		4,201		76						0	15	10/01/2035	1.D FM
	Banc of America																		
05949C-KS-4	Mortgage-BOAMS 2005-J 2A3		PAYDOWN							(4)		(4)				0	4		3.B FM
											•••••					0			
	Banc of America Funding -BAFC 2006-1 1A23		PAYDOWN				4,002	0		(336)		(336)				0		01/01/2036	1.A FM
05951F-AB-0	Banc of America Funding -BAFC 2007-1 TA1B		PAYDOWN													0		01/01/2037	1.D FM
	Banc of America Funding -BAFC																		
	2006-8T2 A2		PAYDOWN		.632							160	632			0	0	. 10/01/2036	1.D FM
											•••••						D		
059522-AU-6	Banc of America Funding -BAFC 2007-C 1A2		PAYDOWN							2,435		2,435				0		05/01/2036	1.D FM
05953Y-AH-4	Banc of America Funding -BAFC 2007-4 TA1B		PAYDOWN			3,511										0	22	05/01/2037	1.A FM
	Banc of America Funding -BAFC 2010-R2 1A3		PAYDOWN													0	.152	.08/01/2037	1.D FM
																0			
	Banc of America Funding -BAFC 2010-R2 3A4		PAYDOWN		14, 113	14, 113	13,721	13,435		678		678				0		07/01/2035	1.A FM
	Bear Stearns ARM Trust 2-BSARM 2004-5 2A		PAYDOWN			19,919										0		07/01/2034	1.A FM
07384Y-KF-2	Bear Stearns Asset Backe-BSABS 2003-AC4 A	03/01/2022	PAYDOWN				39,986		L	369		369	39,566	L		n			1.A FM
	Bear Stearns ALT-A Trust-BALTA 2007-1 21A1		PAYDOWN				4,424	4,424		3,619	[	3,619		[		n	32	.01/01/2047	3.B FM
	W R Berkley Corp-SENIOR UNSECURED	01/01/2022	MATURITY					1,000,000				0		·····		0		01/01/2022	1.G FE
120568-BA-7	Bunge Ltd Finance Corp-SENIOR UNSECURED		CALL 104.799337		2,095,987					174								03/15/2024	2.B FE
	Business Jet Securities									1	1	1		1					1
	-BJETS 2019-1 A	03/15/2022	PAYDOWN							1	1	0		1		0	92		1.G FE
	Business Jet Securities																		
12327F-AA-5	-BJETS 2020-1A A		PAYDOWN		60, 114					1		L				0		11/15/2035	1.G FE
	CAPITAL AUTOMOTIVE									· ·		1		1		1			
12479R-AD-9	REIT-SERIES 17-1A CLASS A1		PAYDOWN		904.478	904.478				168	1	168	904.478	1		<u>ہ</u>			1.E FE
											·····								
	CFMT 2020-HB4 LLC-CFMT 2020-HB4 A		PAYDOWN							3, 197		3, 197				0		12/26/2030	. 1.A FE
125431-AH-9	CHL Mortgage Pass-Throug-CWHL 2006-HYB4 2A1 .		PAYDOWN			3,446	3,371	1,894		1,552						0		06/01/2036	1.D FM
	CHL Mortgage Pass-Throug-CWHL 2007-14 A7		PAYDOWN		1,002	.988		0					1,002			0	5	.09/01/2037	3.B FM
		03/01/2022	PAYDOWN							604		604					ر ۸	11/01/2037	1.A FM
	CHL Mortgage Pass-Throug-CWHL 2007-HY7 A4										·····					·····.0			
	CHL Mortgage Pass-Throug-CWHL 2007-J2 2A9		PAYDOWN		1,629	1,630		D		730		730				0	16	07/01/2037	3.B FM
12563L-AS-6	CLI Funding VI LLC-2020-3A A		PAYDOWN						L		L			L		n	.99	10/18/2045	
	CIM Trust 2021-J2-CIM 2021-J2 A1		PAYDOWN							(1.316)						0	549	.04/01/2051	1 A
																0			
	CIM Trust 2021-J1-CIM 2021-J1 A1		PAYDOWN		71, 104	71,104				(1,829)		(1,829)				0		03/01/2051	1.A
12566U-AE-4	CitiMortgage Alternative-CMALT 2007-A2 1A5		PAYDOWN					11,424		(131)		(131)				0		02/01/2037	4.B FM
	CitiMortgageAlternative-CMALT2007-A2 1A13		PAYDOWN							(54)						0	.439	.02/01/2037	4.B FM
			PAYDOWN																
	COMM 2015-LC21Mortgage -COMM2015-LC21 A3									(1)		(1)				0	······	07/01/2048	1.A
	COMM 2012-CCRE2 MORTGAGE-COMM 2012-CR2 A4		PAYDOWN							(96)						0	1,846	08/01/2045	1.A FM
	COMM 2013-CCRE9 Mortgage-COMM 2013-CR9 A4		PAYDOWN							(323)		(323)		1		n		07/01/2045	1.A
	COAD Martaga Dasked Tru COAD 2000 4 404		PAYDOWN											[			29		1.D FM
12028L-AU-2	CSAB Mortgage-Backed Tru-CSAB 2006-4 A2A		FATUUIIN			13,233	4,0/4	4,0/4	·		·····			·····		L0		12/01/2036	. I.V FM

## **SCHEDULE D - PART 4**

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1	2	3 4	5	6	7	8	9	10	Ch	ange In Rog	k/Adjusted	Carrving Valu	e	16	17	18	19	20	21	22
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												Total	Total							Desig-
											Current	Change in	Foreign					Bond		nation
											-			<b>D</b> 1/						
											Year's	Book/ E	Exchange	Book/				Interest/		Modifier
								Prior Year		Current	Other Thar	Adjusted 0	Change in	Adjusted	Foreign			Stock	Stated	and
													•							
								Book/	Unrealized	Year's	Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP			1	Number of				Adjusted	Valuation	(Amor-	Impairmen	t Value /	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
		F D' I			0 1															
Ident-		For- Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	<b>1</b> 3)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	1	5		Otook					(Decircuse)		mzcu		Value		Diopodui	Diopodal	Diopodul			,
	CSMC Mortgage-Backed Tru-CSMC 2007-3 1A1A		PAYDOWN		10,733	10,733	3,818			6,915		6,915		10,733			0		04/01/2037	. 1.D FM
12641P-AF-1	CSMC Series 2009-6R-CSMC 2009-6R 1A4		CREDIT SUISSE SECURI		41.426		41.426	41.424		(13)		(13)		41.411		15	15		01/01/2036	. 1.A FM
126/1P_AG_0	CSMC Series 2009-6R-CSMC 2009-6R 1A5		CREDIT SUISSE SECURI					129,379		(50)		(50)							01/01/2036	. 1.A FM
			CREDIT SUISSE																	
	CSMC Series2009-6R-CSMC2009-6R 1A6									(73)		(73)						805	01/01/2036	. 1.A FM
12641P-AN-4	CSMC Series2009-6R-CSMC2009-6R 2A3		PAYDOWN		51,388					(2,333)		(2,333)					0		10/01/2035	. 1.A FM
12641P-AP-9	CSMC Series2009-6R-CSMC2009-6R 2A4	01/10/2022	CREDIT SUISSE							(74)		(74)		253.616		86	86	440	10/01/2035	1.A FM
	CSMC Series2009-6R-CSMC2009-6R 2A5		CREDIT SUISSE		286,013			286,074						286,440		(427)	(427)			4.B FM
													····· ŀ							
	CSMC Series2009-6R-CSMC2009-6R 2A6		CREDIT SUISSE													(369)	(369)			. 5.B FM
12641P-BB-9	CSMC Series2009-6R-CSMC2009-6R 4A5		CREDIT SUISSE													(101)	( 101)		11/01/2035	. 4.B FM
	CSMC Series2009-6R-CSMC2009-6R 4A6		CREDIT SUISSE							31							(37)	92		5.B FM
	CSMC Series2009-6R-CSMC2009-6R 6A4	01/10/2022	CREDIT SUISSE		104.131	106.466	104.131	104, 133		12		12		104.145		(14)	(14)	195		1.A FM
	CSMC Series2009-6R-CSMC2009-6R 6A5		CREDIT SUISSE		69,272											(64)	(64)	147		. 4.B FM
12641P-BR-4	CSMC Series2009-6R-CSMC2009-6R 6A6		CREDIT SUISSE									120				( 120 )	( 120 )		09/01/2035	. 5.B FM
	CSMC Series2009-7R-CSMC2009-7R 3A3	01/01/2022	VARIOUS		90.649	90.579	65.670	65.670		24.979		24.979		90,649		, , , , , , , , , , , , , , , , , , , ,	0	643		3.B FM
										47										
	CSMC Series2009-7R-CSMC2009-7R 4A2		CREDIT SUISSE														(55)			. 1.D FM
12641Q-AG-7	CSMC Series2009-7R-CSMC2009-7R 4A3		CREDIT SUISSE													( 108)			07/01/2037	. 5.B FM
12641Q-AH-5	CSMC Series2009-7R-CSMC2009-7R 4A4		CREDIT SUISSE													(108)	(108)		07/01/2037	. 5.B FM
	CSMC Series2009-7R-CSMC2009-7R 4A5		VARIOUS					10,746								(88)	(88)			1.D FM
																(00)	(00)	01		
	CSMC Series2009-7R-CSMC2009-7R 5A3		VARIOUS							(5,610)		(5,610)					0		11/01/2035	. 1.A FM
12641Q-AR-3	CSMC Ser i es2009-7R-CSMC2009-7R 5A4		CREDIT SUISSE													(263)	(263)		11/01/2035	. 3.B FM
12641Q-AS-1	CSMC Series2009-7R-CSMC2009-7R 5A5		CREDIT SUISSE					44.044		.216				44.260		(252)	(252)	171		4.B FM
	CSMC Series2009-7R-CSMC2009-7R 6A2		CREDIT SUISSE							(46)		(46)								. 1.A FM
12641Q-AY-8	CSMC Series2009-7R-CSMC2009-7R 6A3		VARIOUS													(232)	(232)		09/01/2035	. 1.D FM
126410-BE-8	CSMC Series2009-7R-CSMC2009-7R 7A4		VARIOUS													(270)	(270)		12/01/2036	. 4.B FM
	CSMC Ser i es2009-7R-CSMC2009-7R 9A4		VARIOUS							14						(14)				3.B FM
									•••••		•••••						(14)			
	CSMC Series2009-7R-CSMC2009-7R 11A2		VARIOUS													(25)	(25)			. 1.D FM
12641Q-CS-9	CSMC Series2009-7R-CSMC2009-7R 12A5		VARIOUS													(207)	(207)		01/01/2036	. 3.B FM
126/10_CY_8	CSMC Series2009-7R-CSMC2009-7R 13A2		CREDIT SUISSE							39						(45)	(45)		06/01/2037	2.B FM
	CSMC Ser i es2009-7R-CSMC2009-7R 13A3		CREDIT SUISSE						10,000	98								.134		3.B FM
											•••••						(98)		06/01/2037	
	CSMC Series2009-7R-CSMC2009-7R 13A4		CREDIT SUISSE		41,833							204				(204)	(204)		06/01/2037	. 3.B FM
126410-DH-2	CSMC Series2009-7R-CSMC2009-7R 14A6		CREDIT SUISSE													(1,540)	(1,540)		04/01/2037	1.D FM
	CSMC Ser i es2009-7R-CSMC2009-7R 17A2		CREDIT SUISSE		249,589		249,589	249,589				34		249,623		(34)	(34)	30	03/26/2037	1.A FM
													·····							
	CSMC Series2009-7R-CSMC2009-7R 17A3		VARIOUS					450 , 108		45, 191		45, 191				(265)	(265)		03/26/2037	. 1.D FM
	CSMC Series2009-7R-CSMC2009-7R 17A4		CREDIT SUISSE		7,077		7,077	7,077		1, 120		1,120		8, 197		(1,120)	(1,120)			. 1.D FM
126410-EE-8	CSMC Series2009-7R-CSMC2009-7R 17A5	01/10/2022	CREDIT SUISSE		6.279	300,000	6.279	6.279		1.231		1.231		.7.510		(1,231)	(1.231)	36	03/26/2037	1.D FM
	CSMC Series2009-7R-CSMC2009-7R 17A6		CREDIT SUISSE													(2,461)	(2,461)			1.D FM
	CSMC Series2009-7R-CSMC2009-7R 18A2		VARIOUS									14				(17)	(17)		03/01/2037	. 1.A FM
12641Q-EM-0	CSMC Series2009-7R-CSMC2009-7R 18A3		CREDIT SUISSE							231						(231)	(231)		03/01/2037	. 1.A FM
	CSMC Series2009-7R-CSMC2009-7R 18A4		CREDIT SUISSE	-						672			ſ		-	(672)	(672)	529	.03/01/2037	1.D FM
	CSMC Series2009-7R-CSMC2009-7R 18A5		CREDIT SUISSE						34.952										03/01/2037	4.B FM
	CSMC Series2009-7R-CSMC2009-7R 18A6		CREDIT SUISSE			600,000				1,555						(1,916)	(1,916)	1, 176		. 5.B FM
12641Q-EW-8	CSMC Series2009-7R-CSMC2009-7R 1A2		VARIOUS							(20)		(20)							03/01/2036	. 1.A FM
	CSMC Series2009-7R-CSMC2009-7R 1A3		CREDIT SUISSE			60,000				(24)		(24)		64.495				403	.03/01/2036	1.A FM
	CSMC Series2009-7R-CSMC2009-7R 1A4	01/10/2022	CREDIT SUISSE		105.870			105.882						105.951		(81)		805		3.B FM
																(81)	(81)			
	CSMC Series2009-5R-CSMC2009-5R 1A2		PAYDOWN														0			. 1.D FM
12646U-AK-4	CSMC Trust2013-IVR1-CSMC2013-IVR1 A2		PAYDOWN														0		03/01/2043	1.A
	CSMC Trust2013-IVR2-CSMC2013-IVR2 A2		PAYDOWN							1,989		1,989					۵. ۱		04/01/2043	1.A
																	·····0			
	CSMC Trust2013-7-CSMC 2013-7A6		PAYDOWN							630		630					0	107	08/01/2043	. 1.A
	CVS Pass-Through		SINKING				1													
126650-AW-0	Trust-FIRST LIEN		PAYMENT							(1)		(1)					n		01/11/2027	. 2.B FE
	CHL Mortgage Pass-Throug-CWHL 2005-HYB9 1A1 .	03/01/2022	PAYDOWN		1.807					662		662		1.807			0	26		1.D FM
																	0			
	CWABS Asset-Backed Certi-CWL 2005-16 2AF3		PAYDOWN			19, 113		2,469				16,644		19, 113			0	143		. 1.A FM
12667F-4N-2	Alternative Loan Trust2-CWALT 2005-7CB2A3		PAYDOWN														0		03/01/2038	. 1.D FM
	Alternative Loan Trust2-CWALT 2005-6CB1A3		PAYDOWN			.18.869				2.027		2.027	[				0		04/01/2035	
1200/1 -JL-1								10,4/9	•••••								0			

## **SCHEDULE D - PART 4**

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																			Desig-
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											Year's	Book/ Exchan					Interest/		
								Prior Year		Current	Other Than	Adjusted Change	in Adjusted	Foreign			Stock	Stated	and
								Book/	Unrealized	Year's	Temporary	Carrying Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
				N 1 6					-				, ,			TILO		-	
CUSIP				Number of				Adjusted	Valuation	(Amor-	Impairment	t Value /Adjuste	d Value at	Gain	Gain	Total Gain		tractual	Admini-
Ident-		For- Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 - Carryin	Disposal	(Loss) on	(Loss) on	(Loss) on	Durina	Maturity	strative
ification	Description	eign Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)		nized	13) Value		Disposal	Disposal	Disposal	Year	Date	Symbol
		5		OLOCK			-		(Decrease)		nizeu				Бізрозаі	Disposal			
12667G-AC-7	Alternative Loan Trust2-CWALT 2005-13CBA3		PAYDOWN		15,730		14 , 409			1,805		1,805				0	150	05/01/2035	. 1.D FM
12668A-PC-3	Alternative Loan Trust2-CWALT 2005-54CB1A10		PAYDOWN							3,601						0		11/01/2035 .	. 3.B FM
126694-2H-0	CHL MortgagePass-Throug-CWHL2006-10 1A11		PAYDOWN													0	5	05/01/2036 .	. 3.B FM
126694-4F-2	CHL MortgagePass-Throug-CWHL2006-HYB3 3A1B		PAYDOWN													0	46	05/01/2036 .	. 1.D FM
	CHL Mortgage																10		
126694-CS-5	Pass-Throug-CWHL 2005-21 A14		PAYDOWN					0	1		1	1,567	8.786			0	40	10/01/2035	.4.B FM
								23.267								0			
	CHL Mortgage Pass-Throug-CWHL 2006-HYB2 3A1		PAYDOWN							11,320	·····			·····	·····	0			. 1.D FM
126694-D7-0	CHL Mortgage Pass-Throug-CWHL 2006-HYB2 4A1 .		PAYDOWN			1,326	1,210	1,284								0	7	04/01/2036 .	. 1.A FM
	CHL Mortgage								1		1	1				1			
126694-HP-6	Pass-Throug-CWHL 2005-25 A10		PAYDOWN					0								0			. 4.B FM
	CHL Mortgage Pass-Throug-CWHL 2005-24 A36		PAYDOWN				9,742	n		3, 112		3, 112	13, 110			0	80		3.B FM
	CHL Mortgage Pass-Throug-CWHL 2002-39 A18		PAYDOWN												200		110	02/01/2033	
120090-08-3	OIL WOLLYAGE FASS-THIOUS-UNDL 2002-39 A18				0, 142	0, 142 .	0,0/0	0,03/								200			. I.U FM
	CHL Mortgage Pass-Throug-CWHL															-	_		
	2004-HYB4 3A		PAYDOWN		659					1		1				0	5	09/01/2034	. 1.A FM
	CHL Mortgage Pass-Throug-CWHL 2005-16 A24		PAYDOWN					0								0	3		. 3.B FM
12669G-4K-4	CHL Mortgage Pass-Throug-CWHL 2005-J3 1A2		PAYDOWN					0								0		09/01/2035	. 1.D FM
	CHL Mortgage Pass-Throug-CWHL				,	,	,			, .									
12669G-B4-5	2005-15 A8	03/01/2022	PAYDOWN		14.661	.14.185	13.237	9.572		4.644		4.644	14.661			0	167	.08/01/2035	1.D FM
14576A-AA-0			PAYDOWN		5.000	5.000	4.998	4.998		······			5,000			0	17		1.A FE
	Cars Net Lease Mortgage -CARM 2020-1A A1								•••••			2				0			
152314-KJ-8	Centex Home Equity Loan -CXHE 2004-C AF5		PAYDOWN													0			. 1.A FM
161546-CW-4	Chase Funding Trust Seri-CFAB 2002-3 1A5		PAYDOWN							76						0			. 1.A FM
16162W-PV-5	Chase Mortgage Finance T-CHASE 2005-A2 1A1		PAYDOWN		2,444	2,394		1,572								0	13	01/01/2036	. 1.D FM
16162X-AD-9	Chase Mortgage Finance T-CHASE 2006-S3 1A4		PAYDOWN							192						0			1.D FM
	Chase Mortgage																		
16163C-AG-7	Finance T-CHASE 2006-A1 2A2	.03/01/2022	PAYDOWN		.24.453		.18.065						24.453			0		09/01/2036	1.D FM
16165M-AG-3	ChaseFlex Trust Series 2-CFKX 2006-2 A5		PAYDOWN							462						0	129	09/01/2036	1.D FM
											•••••				•••••	0			
17025A-AH-5	CHL Mortgage Pass-Throug-CWHL 2006-17 A8		PAYDOWN		5,892	5,893		Q		2,224		2,224				0	62	12/25/2036	. 3.B FM
	CIM Small Business Loan -CIMLT 2018-1A																		
17181C-AA-6	Α		PAYDOWN							1		1				0	63	03/20/2043	. 1.C FE
	Citigroup Mortgage Loan -CMLTI								1		1	1				1			
17307G-ED-6	2004-HYB2 3A		PAYDOWN						1	1,797	1	1,797		1		0	63	.03/01/2034	1.A FM
17312H-AF-6	Citicorp Residential Mor-CRMSI 2007-2 A6		PAYDOWN		1,396	1,396	1,342			41		41	1.396			n	10	.06/01/2037	1.A FM
17315X-AF-8	Citigroup Mortgage Loan -CMLTI 2009-9 2A3		PAYDOWN									1.066					20		. 1.D FM
																0			
	Citigroup Mortgage Loan -CMLTI 2015-A B3		PAYDOWN					61,680	•••••	6, 171		6,171			•••••	0		06/01/2058	. 1.A
19421U-AA-2	College Ave Student Loan-CASL 2019-A A1		PAYDOWN							108		108				0	12	12/28/2048	. 1.A FE
	COLT 2020-RPL1								1		1	1				1			
19687Y-AA-3	Trust-COLT 2020-RPL1 A1		PAYDOWN											L		0		01/01/2065 .	. 1.A FE
19828J-AA-6	Columbia Property Trust -SENIOR UNSECURED		CALL 108.856		1,088,560	1,000,000						2							2.C FE
19828J-AB-4	Columbia Property Trust -SENIOR UNSECURED	.01/07/2022	CALL 108.715		1,087,150	1,000,000	.996.260			٩		9						.08/15/2026	
	COMMONBOND																		
	STUDENT LOAN								1		1	1				1			
0000711 1		00/05/0000	DAVEOUN		05 45 -	05 45	or 4 -		1		1	1 .						10 105 100 15	4.1.55
20267U-AA-7	-SERIES 16-B CLASS A1		PAYDOWN		25, 154					4		4				0	105		. 1.A FE
212168-AA-6	Continental Wind LLC-FIRST LIEN											0				0	1,936		. 2.B FE
21872M-AA-0	CoreVest American Financ-CAFL 2018-2 A		PAYDOWN							11						0		11/01/2052 .	. 1.A FE
1	CSFB								1		1	1		1	1	1			
22541Q-FV-9	MORTGAGE-BACKED PAS-CSFB 2003-17 1A4		PAYDOWN						1	3	1	3				0	8	06/01/2033	1 A FM
	CSER															0			
005410 D 1 4	COLD	00/05/0000	DAYDOWN		17 007	17 007	10 501	14 400	1	0.500	1	0.500	17 007				50	10 /05 /0004	1.4.54
22541S-PJ-1	Mortgage-Backed Tru-CSFB 2004-AR6 CB1		PAYDOWN													0		10/25/2034	. 1.A FM
	Credit Suisse First Bost-CSFB 2005-8 9A14		PAYDOWN						·····	1,716		1,716				0	133		. 3.B FM
225458-L5-5	Credit Suisse First Bost-CSFB 2005-7 1A10		PAYDOWN					Ω		6						0	2	08/01/2035 .	. 3.B FM
	CSMC								1		1	1				1			
	Mortgage-Backed								1		1	1		1	1	1			
225/70_02_0	Tru-CSMC 2006-3 5A5	.01/01/2022	PAYDOWN				1.903		1		1	2.064				0	.20		4.B FM
220410-00-9	110 00m0 2000-0 JNJ								·····	2,004	<u> </u>	2,004		·····	<u>+</u>	0	20		

## **SCHEDULE D - PART 4**

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1	2	3	4	5	6	7	8	9	10	Cr	nange In Bo	ok/Adjusted Carrying	/alue	16	17	18	19	20	21	22
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									Prior Year		0				Foreign			Stock	Stated	
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									Book/	Unrealized	Year's	Temporary Carryin	a Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
					Nissensis and af					-							T-t-LO-in		-	-
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog- (11 + 12	- Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	Durina	Maturity	strative
						-												5		
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized 13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	CSMC																			
225470-VE-7	Mortgage-Backed Tru-CSMC 2006-1 3A15			PAYDOWN									6				0	25	.02/01/2036 .	1.D FM
	CSMC Trust 2013-TH1-CSMC						£,000							£,007						
22944P-AA-5			03/01/2022	PAYDOWN							4,731		31				0		02/01/2043 .	. 1.A
233046-AF-8	DNKN 2017-1A A211			PAYDOWN								L	.0				0		11/20/2047 .	2.B FE
	DB Master Finance LLC-DNKN 2019-1AW A23W		02/20/2022	PAYDOWN		8,125	8,125		8.218		(93)	1	3)	8,125			0		.05/20/2049	1.0 FE
																		^F		
	Delta Funding Home Equit-DELHE 1999-2 A7F		03/01/2022	PAYDOWN			5,044			·····				5,044		h	······0	25	.08/01/2030 .	1.A FM
251510-DQ-3	Deutsche Alt-A Securitie-DBALT 2005-2 2A1		03/25/2022	PAYDOWN			48	41 .			(7)		7)				0		03/25/2023 .	. 1.A FM
	DOMINOS PIZZA MASTER ISS-SERIES 2015-1A CL	1		1						1	1	1			1	1	1			1
25755T-AE-0		I I		PAYDOWN	1					1	1	1	0		1	1	n	56	10/25/2045 .	2.A FE
201 JUI-ME-U																	······		10/23/2043 .	
1	DOMINOS PIZZA MASTER ISS-SERIES 17-1A CLASS	I I		1	1					1	1	1 1			1	1	1			1
25755T-AH-3	A23	l	01/25/2022	PAYDOWN	l	7,500				L	L	l	.0		L	L	0		07/25/2047 .	2.A FE
	Domino's Pizza Master Is-DPABS 2019-1A A2			PAYDOWN									0				0		10/25/2049 .	2.A FE
	DRIVEN BRANDS FUNDING LL-HONK 2020-2A A2		01/20/2022	PAYDOWN									<u>0</u>	2.500						2.0 FE
20209X-AC-0						2,500	2,500	2,500	2,000	•••••	•••••		.0	2,500		•••••	0			2.0 FE
	Elm Road Generating			SINKING																
28932M-AA-3	Stat-SECURED NOTE			PAYMENT							(3)		3)	53.992			0		02/11/2030 .	. 1.F FE
	ACRES Commercial Realty -XAN																			
				BUIDOWN		10.001	10.001	10.001	10.001					10.001					00/15/0005	4.1.55
30070R-AA-0			01/18/2022	PAYDOWN			10,391						.0	10,391			0		03/15/2035 .	1.A FE
	FCI Funding 2021-1 LLC-FCITL 2021-1A A			PAYDOWN									12				0		. 04/15/2033	1.A FE
31737V_AA_4	Finance of America HECM -FAHB 2020-HB2 A			PAYDOWN									16	218, 119			0		.07/25/2030 .	1.A FE
	First Franklin Mortgage																			
32027L-AE-5	-FFML 2006-FF14 A5		03/25/2022	PAYDOWN							1,940		ł0				0		10/25/2036 .	. 1.A FM
	First Horizon Alternativ-FHAMS 2006-FA1 1A12																			
32051G-T7-0				PAYDOWN							2.631	2.6	24	.6.903			0	80	04/01/2036 .	2.B FM
																	0			
32051G-XQ-3			03/01/2022	PAYDOWN		3, 181	3, 181		2,773		408	4		3, 181			0	14	11/01/2035 .	3.B FM
32051G-XV-2	First Horizon Mortgage P-FHASI 2005-AR5 4A1 .		03/01/2022	PAYDOWN									24				0	15	11/01/2035 .	1.D FM
32051H-AF-0	First Horizon Alternativ-FHAMS 2006-FA3 A6		01/01/2022	PAYDOWN							6		6				0		07/01/2036 .	3.B FM
				PAYDOWN						104							0	5	.02/01/2037	1.D FM
35040U-AA-9				PAYDOWN		64,339					1		.1				0		07/15/2033 .	1.A FE
35041J-AA-3	Foundation Finance Trust-FFIN 2019-1A A		03/15/2022	PAYDOWN									70				0		11/15/2034 .	. 1.B FE
	GSAA Home Equity	I I		1	1	1				1	1	1			1	1	1			1
3622E8-AB-1	Trust 2-GSAA 2006-15 AF2	1	.03/01/2022	PAYDOWN		12,925			3,872	1	9,053	9,0	53	12.925	1	1	n	52		1.D FM
										·····					·	·	······			
362341-4A-4	GSR Mortgage Loan Trust -GSR 2006-AR1 2A1		03/01/2022	PAYDOWN		11,523							2				0	67	01/01/2036 .	1.D FM
	GSR MORTGAGE LOAN TRUST-SERIES 2005-AR6 CLASS	I I		1	1	1				1	1	1			1	1	1			1
362341-SG-5	B1		03/01/2022	PAYDOWN									6				0		09/01/2035 .	3.B FM
	GSR Mortgage Loan Trust -GSR 2004-11	1	1																	
000400 50 7		1	00/04/00000	DAVDOWN		00.000	00 000	00.044	00 570	1				00.000	1	1	· ·	400	00/01/000/	1.4.52
	2A1		03/01/2022	PAYDOWN												·	·····.0	160	09/01/2034 .	1.A FM
36242D-PG-2	GSR Mortgage Loan Trust -GSR 2004-14 3A2		03/01/2022	PAYDOWN				7 , 464	7,415		173		/3				0		12/01/2034 .	1.A FM
	GSR Mortgage Loan Trust -GSR 2005-1F 1A6	l	03/01/2022	PAYDOWN	L	6.384			0	L		11	14	6.384	L	l	0		02/01/2035 .	1.D FM
	GSPA Monetization Trust-SECURED		03/09/2022	SINKING PAYMENT					28.681		(306)			28.376			n	304	10/09/2029	2.A FE
396/8W-AA-6	Greenwich Capital Struct-GCSP 2005-1 A1		03/01/2022	PAYDOWN		6,304	6,304	6,272		·····	(95)	······(	95)	6,304		·	l0		09/01/2034 .	. 1.A FM
	Hanmi Financial	I I		1	1	1				1	1	1			1	1	1			1
410495-44-3	Corp-SUBORD I NATED	I I		CALL 100	1					1	(13)	(	13)		1	1	0		.03/30/2027	2.C FE
	Hardee's Funding										(10)	·/								
		I I			1					1	1	1	-		1	1	1			
	LLC-HNGRY 2020-1A A2			PAYDOWN			3,250						.0				0		12/20/2050 .	2.B FE
41283L-AU-9	Harley-Davidson Financia-SENIOR UNSECURED	I		MATURITY	L					L		L	59		L	L			02/04/2022 .	2.C FE
	HERO Funding Trust 2014HERO 2014-2A A			PAYDOWN							7	Γ	7				n		.09/21/2040	1.A FE
												······					0			
	HERO Funding Trust 2014HERO 2014-1A A		03/20/2022	PAYDOWN							(10)					·	······0		09/20/2038 .	. 1.A FE
	HomeBanc Mortgage Trust -HMBT 2007-1 11A1		03/01/2022	PAYDOWN		4,915	4,237	4,208	4,208				33	4,915			0	21	04/01/2047 .	1.D FM
	HP Communities LLC-FIRST LIEN	1		SINKING PAYMENT						1		6	35		1	1	0		03/15/2023 .	1.0 FE
	Impac CMB Trust												-			[	[			
1505 01 115 -		I I	00 /05 /0055	DAVEOUN	1	0.077	0.0			1		1 .			1	1	I .		0.4.105.1005-	
	Series 2-IMM 2005-2 1A2			PAYDOWN		9,322	9,322				835		35				0	13	04/25/2035 .	. 1.A FM
45254N-NT-0	Impac CMB Trust Series 2-IMM 2005-3 M1	I		PAYDOWN	L	1,373	1,373		1,040	L			33	1,373	L	L			08/25/2035 .	1.A FM
	Infinity Property and Ca-SENIOR UNSECURED	1		CALL 101.74		5.087.000		5.000.000	5,000,000	1		1	0	5,000,000						
40000U-AF-U	Infinity Floperty and Ca-SENTOR UNSECORED	I		UNLL 101.74		ນ,087,000						h	.v					129, 10/	. 2022 / וו ופע.	

## **SCHEDULE D - PART 4**

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1	2	3 4	5	6	7	8	9	10	Cł	nange In Boo	ok/Adjusted	Carrying Va	lue	16	17	18	19	20	21	22
									11	12	13	14	15							NAIC
										12	10	17	10							
																				Desig-
																				nation,
																				NAIC
												Total	Total							Desig-
											Current	Change in	Foreign					Bond		nation
												0		Dl-/						
											Year's	Book/	Exchange	Book/				Interest/		Modifier
								Prior Year		Current	Other Thar	n Adjusted	Change in	Adjusted	Foreign			Stock	Stated	and
								Book/	Unrealized			Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
											Temporary	, ,								-
CUSIP				Number of				Adjusted	Valuation	(Amor-	Impairment	t Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For- Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	Durina	Maturity	strative
	Description					DawValue					0	<b>`</b>						5		
ification	Description	eign Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	Invitation Homes																			
	2018-SF-IHSFR																			
46185J-AA-6	2018-SFR1 A		PAYDOWN			6,555	6,555	6,555				0		6,555			0	10		
	Invitation Homes 2018-SF-IHSFR																			
101071 11 0		00 (17 (0000	DUVDOWN		0.050	0.050	7 (00	0.050						0.050						4 1 55
46187X-AA-3	2018-SFR4 A		PAYDOWN	····		8,252	7 , 468	8,252				0		8,252			0	20	01/17/2038 .	1.A FE
	J G WENTWORTH RECV XXII-ASSET BKD NT 10-3 CL								1											
46616M-AA-8	A		PAYDOWN	l.					l							l	0		12/15/2048	1.A FE
1	JGWPT XXIII		1	1 [					1		1					1	1			
46616P-AA-1	LLC-HENDR 2011-1A A		PAYDOWN						1	9		6			1	1	<u>م</u>		10/15/2056 .	
										0		0	• • • • • • • • • • • • • • • • • • • •				0	144		
1001	JGWPT XXVIII		DAVDOWN						1											
46617F-AA-2	LLC-HENDR 2013-1A A	03/15/2022	PAYDOWN		14,575	14,575	14,565	14,567		8		8		14,575			0	66	04/15/2067 .	1.A FE
1	JGWPT XXIX		1						1			1			1	1				
46617J-AA-4	LLC-HENDR 2013-2A A		PAYDOWN						1		1	0				1	0			1.A FE
	JGWPT XXX																			
46617L-AA-9		00/15/0000	DAVDOWN		00 100		00 100	00 100		20		20		00 100			0	100	01/17/0070	1 4 55
4001/L-AA-9	LLC-HENDR 2013-3A A		PAYDOWN						•••••		• • • • • • • • • • • • • • • • • • • •					•••••	0		01/17/2073 .	I.A FE
	JGWPT XXXI LLC-ASSET BKD																			
46617T-AA-2	SERIES 2014-1 CL A		PAYDOWN							7							0		03/15/2063 .	1.A FE
	JGWPT XXXII LLC-ASSET BKD																			
46618A-AA-2	SERIES 2014-2 CL A		PAYDOWN														0		.01/17/2073 .	1 A FE
																	0			
	J G WENTWORTH XXXIII LLC-ASSET BKD SER 2014-3																			
46618H-AA-7	CL A		PAYDOWN							(75)		(75)					0		06/15/2077 .	1.A FE
	J G WENTWORTH XXXIV LLC-ASSET BKD SER 2015-1																			
46618L-AA-8	CL A		PAYDOWN														0	349	.09/15/2072	1.A FE
	J G WENTWORTH XXXV LLC-ASSET BCKD NT 15-2A CL					, .	, .	,												
46619R-AA-4	A RENTIONNE AND A DECKOOLT BOND NE TO ZA OL		PAYDOWN							(37)		(27)					0	127		1.A FE
										(37)		(37)					0			
	J.G. Wentworth XXXVIII L-HENDR 2017-1A A		PAYDOWN	•••••	6,058			6,054		4		4		6,058			0		.08/16/2060 .	1.A FE
	JP Morgan Mortgage Trust-JPMMT 2005-A4 2A1		PAYDOWN		2,090	2,090	1,855	1,907						2,090			0	7	07/01/2035 .	1.A FM
466247-ZP-1	JP Morgan Mortgage Trust-JPMMT 2005-S3 1A2		PAYDOWN					0									0	1	01/01/2036 .	2.B FM
46627M-AD-9	JP Morgan Alternative Lo-JPALT 2005-S1 1A4		PAYDOWN							2,504							0			
46627M-CY-1	JP Morgan Alternative Lo-JPALT 2006-A1 3A1		PAYDOWN														0	.132	.03/01/2036 .	1.D FM
46627M-EC-7	JP Morgan Alternative Lo-JPALT 2006-S1 1A6		PAYDOWN											9,882			0	102	.03/01/2036	1.D FM
4002/W-EU-/								5,324										103		. I.U FIII
	JP Morgan Alternative Lo-JPALT 2006-S1								1			1			1	1				1
46627M-EJ-2	1A12				14,455	12,944		9,693				3,643		14,455			0		03/01/2036 .	4.B FM
46628L-AB-4	JP Morgan Mortgage Trust-JPMMT 2006-A4 1A2		PAYDOWN	l													0		.06/01/2036 .	1.D FM
46628V-AH-9	JP Morgan Alternative Lo-JPALT 2006-S3 A5		PAYDOWN				.5,396			(392)		(392)		(862)			0	62	.08/01/2036 .	
	JP Morgan Mortgage Trust-JPMMT 2007-A2 3A1		PAYDOWN		440	440								440			n	00	.04/01/2037	1.D FM
																				4.B FM
46630W-AB-6	JP Morgan Mortgage Trust-JPMMT 2007-S2 1A2		PAYDOWN		6,326	5,576				2,470		2,470		6,326					06/01/2037 .	
46630W-AL-4	JP Morgan Mortgage Trust-JPMMT 2007-S2 1A11 .		PAYDOWN	·····	4,315	4, 149	2,667	0		1,542		1,542		4,315			0	35	06/01/2037 .	4.B FM
46631N-AA-7	JP Morgan Mortgage Trust-JPMMT 2007-S3 1A1		PAYDOWN		1,216	1,228								1,216			0	11	.08/01/2037 .	3.B FM
46631N-DT-3	JP Morgan Mortgage Trust-JPMMT 2007-S3 1A90 .		PAYDOWN	L		26,087			L	7,812									.08/01/2037 .	4.B FM
	JP Morgan Mortgage Trust-JPMMT 2008-R2 1A1		PAYDOWN	1													0	.125	07/01/2037 .	
	JP Morgan Mortgage																	12J		
400001 10 0		00/04/0000	DAVDOWN		F0 474	50 (7)	40.507	50 111	1					F0 (7)	1	1	_	4 4 4 7	44 (04 (0000	4.4.54
	Trust-JPMMT 2008-R4 2A1		PAYDOWN							27		27					0	1,115	11/01/2036 .	1.A FM
	JP Morgan Resecuritizati-JPMRR 2010-1 3A2		PAYDOWN							12,811		12,811					0		04/01/2037 .	1.D FM
46635B-AD-3	JP Morgan Resecuritizati-JPMRR 2010-7 1A4		PAYDOWN		45,864												0		03/01/2039 .	1.D FM
	Jack In The Box																			
466365-AA-1	Funding -JACK 2019-1A A2I		PAYDOWN		1,985,000	1,985,000			1			0		1,985,000	1	1	0			2.B FE
					1,985,000					(000)								100		
	JP Morgan Mortgage Trust-JPMMT 2019-7 A3		PAYDOWN							(200)		(200)					U		02/01/2050 .	1.A
472320-AA-8	Jefferies Resecuritizati-JMAC 2008-R1 A		PAYDOWN					0	·····	2,586	·····	2,586					0		06/25/2047 .	1.D FM
472321-AD-0	Jefferies Resecuritizati-JMAC 2008-R2 2A2		PAYDOWN			16,540	7 , 140	8,707		7,833		7,833					0	68	01/01/2037 .	1.A FM
472321-AH-1	Jefferies Resecuritizati-JMAC 2008-R2 2A3		PAYDOWN				.632										0		.01/01/2037 .	
472321-AJ-7	Jefferies Resecuritizati-JMAC 2008-R2 3A1		PAYDOWN							1,617		1,617					n		01/01/2039	
472321-AK-4	Jefferies Resecuritizati-JMAC 2008-R2 3A2		PAYDOWN	[ [																1.D FM
					000 000									~~~ ~~			······			
4/233D-AB-7	Jefferies Resecuritizati-JMAC 2009-R11 1A2		PAYDOWN														0		09/01/2036 .	1.D FM

## **SCHEDULE D - PART 4**

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1	2	3 4	5	6	7	8	9	10	Ch	nange In Book	<pre></pre>	Carrying Value	16	17	18	19	20	21	22
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								Prior Year		Current C	Other Than			Foreign			Stock	Stated	and
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								Book/	Unrealized	Year's	Temporary	Carrying Boo	k Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP				Number of				Adjusted						Gain	Gain	Total Gain	Received	tractual	Admini-
								Adjusted	Valuation	(Amor- II	mpairment	Value /Adjus							
Ident-		For- Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 - Carry	ing Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description		of Durch coor	Cteal	oration	Der Value	Cost	, , ,			0						0		
ification	Description	eign Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13) Valu	e Date	Disposal	Disposal	Disposal	Year	Date	Symbol
477600-AB-9	Jimmy Johns Funding LLC-JIMMY 2017-1A A2II		PAYDOWN									0				0		07/30/2047 .	. 2.B FE
	Great Lakes Kcap F3c																		
48669R-AA-9	Sen-KCAP 2017-1A A		PAYDOWN							(15)		(15)				0	1,218	12/20/2029 .	. 1.A FE
494550-BJ-4	Kinder Morgan Energy Par-SENIOR UNSECURED		MATURITY		1,000,000							14				0		03/01/2022 .	. 2.B FE
	LABRADOR AVIATION FINANC-SERIES			· · · · · · · · · · · · · · · · · · ·	,					[		[					20,700		
505401 41 5		00/15/0000	DAVEOUN		0.07	0.000			1	-					1	-		04 /45 /00 15	
50543L-AA-0	2016-1A CLASS A1		. PAYDOWN		6,991	6,991	6,855	6,937					6,991			0	40	01/15/2042 .	. 3.A FE
1	LEHMAN XS TRUST-SERIES		1						1			1			1			1	
525221-GM-3	2005-9N CLASS 1A1		PAYDOWN		.59.942				1				59.942		1	0	58	02/25/2036 .	. 1.D FM
525241-AL-9	Lehman XS Trust 2007-1-LXS 2007-1 WF1		. PAYDOWN				8,014			4, 177		4,177				0	108	01/01/2037 .	. 1.D FM
	LONGTRAIN LEASING III LL-SERIES 2015-1A CLASS	8					1		1			1			1			1	1
543190-AA-0			PAYDOWN						1						1	•	8/	.01/15/2045 .	1.F FE
																	04		
55282X-AA-8	MF1 Multifamily Housing -MF1 2021-FL5 A		. PAYDOWN					697,906				·····.0  ······				0		07/15/2036 .	. 1.A FE
559079-AK-4	Magellan Health Inc-SENIOR UNSECURED		. CALL 107.30395		3,219,119			2,999,338										09/22/2024 .	. 2.C FE
	MASTR Asset Securitizati-MASTR 2006-1 1A3	03/01/2022	PAYDOWN													0	1	.05/01/2036	1.D FM
									• • • • • • • • • • • • • • • • • • • •							0			
5/6451-AA-5	MASTR Adjustable Rate Mo-MARM 2007-HF2 A1		PAYDOWN													0		09/25/2037 .	. 1.A FM
585495-AA-2	Mello Mortgage Capital A-MELLO 2021-MTG1 A1 .		PAYDOWN							(2,232)		(2,232)				0		04/01/2051 .	. 1.A
	Merrill Lynch Mor Inv Go-GNABS 1998-GN1 M1		PAYDOWN									0				0		02/01/2027 .	. 1.A FM
										••••••						0			
	MERRILL LYNCH MORTGAGE I-SERIES 2005-A9CLASS																		
59020U-W4-3	4A1	03/01/2022	PAYDOWN		19.711	19.988	17.929	12.654				7.306	19.711			0	112	12/01/2035	1.D FM
	MIDLAND COGEN VENTURE-SENIOR SECURED NOTE		SINKING PAYMENT							(3)		(3)				٥		03/15/2025 .	. 3.B FE
																0			
	Morgan Stanley Mortgage -MSM 2006-17XS A3A		. PAYDOWN			10,326	6,996	3,706		6,620		6,620				0		10/01/2046 .	. 1.D FM
61751M-AU-8	Morgan Stanley Mortgage -MSM 2007-10XS A18		PAYDOWN													0		02/01/2037 .	. 1.A FM
61754P-AA-2	Morgan Stanley Mortgage -MSM 2007-8XS A1		PAYDOWN					0		3.746						0	18	.04/01/2037	1.D FM
								04 007											
61758M-AA-5	Morgan Stanley Re-REMIC -MSRR 2009-R2 1A1A		PAYDOWN							1,011		1,011				0		04/01/2036 .	. 1.A FM
61758V-AQ-0	Morgan StanleyRe-REMIC -MSRR2010-R2 3B2		PAYDOWN													0		10/01/2037 .	. 1.D FM
61915B-AB-2	MortgageIT Trust2005-2-MHL 2005-21A2	.03/25/2022	PAYDOWN			.5.618		3.911		1.707		1.707	5.618			0	6	.05/25/2035	1.A FM
	NRP Mortgage Trust2013NRPMT 2013-1A1		PAYDOWN													0		07/01/2043	1 A
02942N-AA-4			. PATDOWN		01,011					2,270		2,270			•••••	0			
	NRZ FHT Excess																		
62955M-AA-4	LLC-NZES 2020-FHT1 A		PAYDOWN							1		1				0		11/25/2025 .	2 C FF
	New Century Alternative -NCAMT 2006-ALT1 AF2			· · · · · · · · · · · · · · · · · · ·						[		[					101		
0.00500 15 5	New Century Alternative -NGANII 2000-ALTI AF2	00/04/07777	DAVEOUN						1	1 005		1 000			1	-		07/04/00055	
643528-AB-8			. PAYDOWN		1,700	1,700	1,569					1,223	1,700			0	4	07/01/2036 .	. 1.D FM
1	New Century Alternative -NCAMT 2006-ALT2 AF3		1						1			1			1			1	
643529-AC-4			PAYDOWN		6.269	.6.269		1.428	1			4.841	.6.269		1	^	13	. 10/01/2036 .	1.D FM
040023-A0-4	N O A ALLA AL NONET				0,209								0,203			0			
	New Century Alternative -NCAMT						1		1			1			1			1	1
643529-AD-2	2006-ALT2 AF4		PAYDOWN	L L		3, 134	2,084					2,420				0	6	. 10/01/2036 .	. 1.D FM
	New York Mortgage Trust -SENIOR UNSECURED		MATURITY		2,000,000	2,000,000	1,980,000	1,999,715					2,000,000			0	62,500	01/15/2022	3.B Z
																·····.0			
65251X-AN-6	NewStar Berkeley Fund CL-NSBKY 2016-1A AR		. PAYDOWN		144,064		144,064	144,064		-		L	144,064			0		10/25/2028 .	. 1.A FE
65535V-SJ-8	Nomura Asset Acceptance -NAA 2006-AP2 A2		. PAYDOWN	L L.		10,844	4,467	4,467		6,376		6,376				0		01/01/2036 .	. 1.D FM
	Nomura Asset Acceptance -NAA 2007-1 1A1A		PAYDOWN							4,386		4,386				0			1.D FM
																0			
	Nomura Resecuritization		1						1			1 !			1			1	
65539C-AK-2	-NMRR 2011-4RA 1A10		PAYDOWN			21,731										0	16	12/01/2036 .	. 1.D FM
	0BX 2019-INV1		1	1 E					1	i i l'		1						1	
67098A-AM-1			PAYDOWN						1						1	^		. 11/01/2048 .	1 A
	Trust-OBX 2019-INV1 A12			•••••					•••••						• • • • • • • • • • • • • • • • • • • •				. 1.A
67181D-AA-9	Oak Street Investment Gr-OAKIG 2020-1A A1		PAYDOWN	L		4,360				L		0				0	13	11/20/2050 .	. 1.A FE
	Oak Street Investment Gr-SERIES 20-1A CLASS						1		1			1			1			1	1
67181D-AB-7	A2		PAYDOWN		4,360			4,358	1	2					1	^	16	11/20/2050 .	
																0			. 1.A FE
67190A-AA-4	Oak Street Investment Gr-OAKIG 2021-1A A1		. PAYDOWN		8, 167	8, 167	8 , 166	8, 166		L1 L.		1	8, 167			0		01/20/2051 .	. 1.A FE
	Oak Street Investment Gr-OAKIG 2021-1A A2	03/20/2022	PAYDOWN		6,534				1	1		1	6.534		1	0	21	.01/20/2051 .	. 1.A FE
	OBX 2019-EXP1		1	[ [					[	[		[		[	[		[	[	· · · · · · - · · · ·
									1						1				
67448Q-AC-5	Trust-OBX 2019-EXP1 1A3		. PAYDOWN													0		01/01/2059 .	. 1.A
	Occidental Petroleum						1		1			1			1			1	1
674500 04 5	Cor-SENIOR UNSECURED	02/00/0000			1,975,000	0 000 000	1 001 500	1 005 000	1				1 005 700		(00.700)	(00.700)	24 000	00/15/0007	2 D EE
			. CA_CASH_CLOS E			2,000,000	1,991,580	1,995,603	•••••				1,995,768		<u>(</u> 20,768)				. 3.B FE
68268H-AA-4	OneMain Financial Issuan-OMFIT 2016-3A A		PAYDOWN													0		06/18/2031 .	. 1.A FE
-				•		•	•		•	• • • • • •									

## **SCHEDULE D - PART 4**

1         2         3         4         5         6         7         8         9         10         Change In Book/Adjusted Carrying Value         16         17         18         19           CUSIP	n         During Year         Maturity Date           0	VAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol 2022 1.6 FE	
CUSIP Ident- Iffication         For- Por- Por- Por- Por- Por- Por- Por- P	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	ted m- ted srv of terms of ter	
CUSIP Ident- 1Error- eignDisposalName of PurchaserNumber of Shares of StockConsid- erationPar ValueActual CostActual CostCurrent Prior Year Book/ Adjusted Adjusted Carrying ValueBook/ Adjusted Carrying Value at DateBook/ Foreign Book/ Adjusted Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized CostBook/ Foreign Book/ Adjusted Corrying Value at DisposalBook/ Foreign Book/ Adjusted Carrying DateBook/ Foreign Realized Carrying DateBook/ Foreign Realized Carrying DateCostTotal Ga Foreign Book/ Adjusted CostBook/ Foreign Book/ Accual DateBook/ Foreign Realized Carrying DateBook/ Foreign Realized Carrying DateBook/ Foreign Realized Carrying DateForeign Foreign Realized Carrying DateBook/ Foreign Realized CostBook/ Carrying Par ValueBook/ Carrying ValueBook/ 	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol 2022. 1.6 FE 2022. 1.4	
CUSIP Ident- 1Error- eignDisposalName of PurchaserNumber of Shares of StockConsid- erationPar ValueActual CostActual CostCurrent Prior Year Book/ Adjusted Adjusted Carrying ValueBook/ Adjusted Carrying Value at DateBook/ Foreign Book/ Adjusted Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized Carrying Value at DateBook/ Foreign Realized CostBook/ Foreign Book/ Adjusted Corrying Value at DisposalBook/ Foreign Book/ 	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol 2022. 1.6 FE 2022. 1.4	
CUSIP Ident- ification       Por- person Description       For- eign       Name Date       Name of Purchaser       Consid- eration       Par Value       Actual Cost       Actual Par Value       Actual Cost       Actual Par Value       Current Value       Change in Book/ Current Value       Foreign Book/ Carrying Value       Book/ Adjusted Carrying Value       Cost Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value <t< td=""><td>Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0        </td><td>VAIC Desig- nation Modifier and nn- SVO tual Admini- strative Symbol /2043 1.A</td></t<>	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	VAIC Desig- nation Modifier and nn- SVO tual Admini- strative Symbol /2043 1.A	
CUSIP Ident- ification       Por- person Description       For- eign       Name Date       Name of Purchaser       Consid- eration       Par Value       Actual Cost       Actual Par Value       Actual Cost       Actual Par Value       Current Value       Change in Book/ Current Value       Foreign Book/ Carrying Value       Book/ Adjusted Carrying Value       Cost Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value <t< td=""><td>Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0        </td><td>Desig- nation Modifier and on- SVO tual Admini- strative Symbol /2043 1.A</td></t<>	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	Desig- nation Modifier and on- SVO tual Admini- strative Symbol /2043 1.A	
CUSIP Ident- ification       Por- person Description       For- eign       Name Date       Name of Purchaser       Consid- eration       Par Value       Actual Cost       Actual Par Value       Actual Cost       Actual Par Value       Current Value       Change in Book/ Current Value       Foreign Book/ Carrying Value       Book/ Adjusted Carrying Value       Cost Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value <t< td=""><td>Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0        </td><td>nation Modifier and SVO tual Admini- strative Symbol (2043 1.6 FE</td></t<>	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	nation Modifier and SVO tual Admini- strative Symbol (2043 1.6 FE	
CUSIP Ident-For-DisposalNameNumber of Shares ofConsid- erationPar ValueActual CostActual CostCurrent Prior Year Book/ Adjusted ValueCourse Book/ Adjusted Carrying ValueConsid- Book/ Adjusted Carrying ValueProreign Book/ Adjusted Carrying Value at DisposalBook/ Foreign Book/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying Value at DisposalBook/ Adjusted Carrying DisposalBook/ Adjusted Carrying DisposalCurrent Par ValueChange in Par ValueBook/ Carrying ValueChange in Book/ AccurationBook/ Adjusted Carrying Value at DisposalBook/ AccurationAdjusted Carrying Value at DisposalPar ValueCostPar Value CostCurrent Par ValueChange in Par ValueBook/ Carrying ValueAccuration Carrying ValueCostPar Value Par ValueCostPar ValueCurrent Par ValueChange in Par ValueBook/ Carrying ValueCostPar Value Par ValueCurrent CostCurrent Par ValueChange in Par ValueBook/ Carrying ValueCostCurrent Par ValueCurrent Carrying ValueChange in Par ValueBook/ Carrying ValueCurrent Par ValueCurrent Par Value <th< td=""><td>Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0        </td><td>nation Modifier and SVO tual Admini- strative Symbol (2043 1.6 FE</td></th<>	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	nation Modifier and SVO tual Admini- strative Symbol (2043 1.6 FE	
CUSIP Ident- ification       Pro- Disposal       Disposal Pate       Number of Shares of Stock       Consid- eration       Prior Year Par Value       Value       Vear's Value       Book/ Valuation (Loss) on tization)/       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Adjusted Carrying Value       Book/ Carrying Value       Book/ Adjusted Carrying Value       Book/ Carrying Value       Book/ Adjusted Carrying Value       Book/ Carrying Value       Corrying Value       Book/ Carrying	Interest/ Stock         Stated Con- tractual           n         During During Year         Maturity Date           0	Modifier and SVO Admini- strative Symbol (2043 1.6 FE (2022 1.6 FE	
CUSIP       Price       Price       Price       Price       Price       Price       Current       Other Than       Adjusted       Carrying	Stock Dividends Received During Year         Stated Con- tractual Maturity Date           0	ted and SVO tual Admini- strative Symbol /2043 1.A	
CUSIP Ident- Ification       PMT Loan Trust 2013-J1-PMTLT       Disposal       Name of Purchaser       Number of Shares of Stares       Number of Shares of Stares       Par Value       Cansid- eration       Unrealized Actual       Year's (Amor- tization)/       Temporary (Larying       Carrying Value       Book/ Adjusted       Carrying Value       Book/ Adjusted       Realized Gain (Loss) on Disposal       Realized Gain (Loss) on       Realized Gain (Loss) on       Realized Gain (Loss) on       Realized (Loss) on         .693456-AA-3       2013-J1 A1 693467-BN-2       03/01/2022 PMC 2020-1       PATOIIN	Dividends Received During Year         Con- tractual Maturity Date           0	SVO           Admini- strative           Symbol           /2043           1.4           /2022           1.6 FE           /2050           1.4	
CUSIP Ident- Ification       PMT Loan Trust 2013-J1-PMTLT Description       Disposal eign       Name Date       Number of of Purchaser       Stock       Consid- eration       Par Value       Book/ Actual Cost       Unrealized Valuation (Loss) on       Year's Value       Temporary (Larrying Value       Book/ (Adjusted Date       Carrying Value       Book/ (Adjusted Date       Book/ Consid- eration       Realized Gain (Loss) on       Realized Gain (Loss) on       Realized (Loss) on         683456-AA-3 2013-J1 A1 	In         Received During Year         tractual Maturity Date           0	Admini- strative           Admini- strative           Symbol           /2043         1.4           /2022         1.6 FE           /2050         1.4	
CUSIP Ident- ification       Construction       Number of Disposal       Number of Date       Number of Shares of Of Purchaser       Number of Shares of Stock       Adjusted Carrying       Value       Value       /Adjusted Carrying       Value       //Adjusted Carrying       Value       //Adjusted       Value       //Adjusted       Value       //Adjusted       Value       //Adjusted       Value       //Adjusted       Value <th adjusted<="" th="">       Value</th>	Value	In         Received During Year         tractual Maturity Date           0	Admini- strative           Admini- strative           Symbol           /2043         1.4           /2022         1.6 FE           /2050         1.4
Ident- ification       For- pign       Disposal Date       Name of Purchaser       Shares of Stock       Consid- eration       Actual Cost       Carrying Value       Increase/ (Decrease)       Itzation)/ Accretion       Recog- nized       (11 + 12 - 13)       Carrying Value       Disposal Date       Disposal Disposal       (Loss) on Disposal	n         During Year         Maturity Date           0	urity ate         strative Symbol           '2043         1.4           '2022         1.6 FE           '2050         1.4	
ification         Description         eign         Date         of Purchaser         Stock         eration         Par Value         Cost         Value         (Decrease)         Accretion         nized         13         Value         Disposal	Il         Year         Date           0	ate         Symbol           /2043         1.4           /2022         1.6           /2050         1.4	
PHT Loan Trust 2013-J1-PMTLT         03/01/2022         PAYDONN         44,384         44,384         43,247         43,303         1,081         1,081         44,384	0	/2043 1.A /2022 1.G FE /2050 1.A	
PHT Loan Trust 2013-J1-PMTLT         03/01/2022         PAYDONN         44,384         44,384         43,247         43,303         1,081         1,081         44,384	0	/2043 1.A /2022 1.G FE /2050 1.A	
693456-AA-3       2013-J1 A1		/2022 1.G FE /2050 1.A	
683476-BN-2       PNC Financial Services G-SENIOR UNSECURED      02/07/2022       CALL 100      1,000,000      999,881      59      59      999,940      60        693684-AA-0       Trust-FSNC 2020-1 A1		/2022 1.G FE /2050 1.A	
PSWC 2020-1	.0	/2050 1.A	
693684-AA-0       Trust-PSIIC 2020-1 A1			
PSIIC 2019-2         03/01/2022         PAVD0IIN         77,673         77,673         79,226         79,526         (1,853)         77,673         77,673           683758-A4-5         Trust-PSIIC 2019-3 A1         03/01/2022         PAVD0IIN         61,861         62,759         62,947         (1,087)         (1,087)         61,861         61,861         62,759         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861         61,861			
. 69374X-AA-8 Trust-PSMC 2019-2 A1		2010 1	
PSIIC 2019-3 Trust-PSIIC 2019-3 A1			
PSIIC 2019-3 		/2049 1.A	
	.0	/2049 1.A	
	.0		
74387Y-AD-5 Provident Funding Mortga-PPIMT 2021-1 A2A 03/01/2022 PAYD0IN 148.692 149.692 147.345 1.327 1.327 1.327 1.48.692	.0		
1747825-47851 LEN			
	.0	2037 4.B FM	
RBSSP			
Resecuritization			
	.0	2034 1.A FM	
PRSSP			
Resecuritization			
.749280-AV-7 T-R582 2009-1 7A2	.0	2037 1.D FM	
	.0	2037 1.0 FM	
Resecuritization			
	.0	/2036 1.D FM	
RBSSP			
Resecuritization			
74928U-AM-9 T-R8SP 2009-12 5A2 03/01/2022 PAYD0IN 32 492 28 306 20 046 5.786 5.786 5.786 32 492	.0	2036 1.D FM	
	.0	/2049 1.A	
.749389-AA-0 RCXT Mortgage Trust 2020-RCXT 2020-1 A1	.0		
		1.1.1	
74968R-A-3 IssuancePPIT 2019-1 A	.0	2063 1.A FE	
	.0	2060 1.A FE	
RALI Series			
2006-QS13 Tr-RALI			
	.0	2036 1.D FM	
RESIDENTIAL ACCREDIT LOA-SERIES			
	.0	/2037 4.B FM	
.75116F-BH-1 RALI Series 2007-059 Tru-RALI 2007-059 A33			
75575/JAA-3 Ready Capital Mortgage F-R0II 2020-FL4 A		2035 1.A FE	
		1.0 IL	
	0 00 /01 /0007	(0007 4 A FM	
	.0		
	.0	/2035 1.A FM	
RALI Series	1		
2005-QS15 Tr-RALI			
	.0	/2035 1.D FM	
RALI Series 2006-QS1	1		
	.0	2036 3.B FM	
.761118-UG-1 RALL Series 2006-052 Tru-RALL 2006 052 TA1			
761118-UQ-9 RALL Series 2006-022 Tru-RALL 2006-02000 Tru-RALL 2006-0200000000-02000000000000000000000			
761128-Mal GMACM Mortgage Loan Trus-GMACM Mort			
	.0		
. 817434-A-7 SEQUOIA MORTGAGE TRUST 2-SEMT 2019-5 A1	.0		
	.0		
	.0		
	.0		

## **SCHEDULE D - PART 4**

	<u>^</u>			-		3	1					0			40	4-	4.0	10			
1	2	3	4	5	6	7	8	9	10	Cr	nange In Bool	k/Adjusted	Carrying Va	lue	16	17	18	19	20	21	22
										11	12	13	14	15							NAIC
												10		10							-
																					Desig-
																					nation,
																					NAIC
													Total	Total							Desig-
												Current	Change in	Foreign					Bond		nation
															Book/				Interest/		Modifier
												Year's	Book/	Exchange							
									Prior Year		Current 0	Other Than	n Adjusted	Change in	Adjusted	Foreign			Stock	Stated	and
													,			0					
									Book/	Unrealized	Year's	Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP					Number of				Adjusted	Valuation		Impairment	t Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
		_									•					-	-				
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
	Description						Der Value					0							0	,	
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	Seguoia Mortgage																				
81748J-AA-3	Trust 2-SEMT 2019-4 A1			PAYDOWN							(1,402)		(1,402)					0			1.A
										• • • • • • • • • • • • • • • • • • • •				••••••			• • • • • • • • • • • • • • • • • • • •	0			
81748K-AA-0	Sequoia Mortgage Trust 2-SEMT 2020-2 A1		03/01/2022 .	PAYDOWN							(3,092)		(3,092)					0		03/01/2050 .	1.A
817743-AA-5	SERVPRO Master Issuer LL-SPRO 2019-1A A2		01/25/2022 .	PAYDOWN		2,500							0					0	24	10/25/2049 .	2 C FE
	Soundview Home Loan	I		1	1					1	I		1			1	1				
83611M-JX-7	Trus-SVHE 2005-0PT4 2A4			PAYDOWN									1, 109					0		12/25/2035 .	1.A FM
84858W-AA-4	Spirit Airlines Pass Thr-FIRST LIEN	1		SINKING PAYMENT			28,423	28,423	28,432	1	(9)		(9)				1	n	.480	.02/15/2030	1.G FE
		1			1									[ [							
	SUNTRUST ADJUSTABLE RATE-SERIES	I		1	1					1			1		_	1	1				
855541-AC-2	2007-S1 CLASS 3A1		03/01/2022 .	. PAYDOWN		7,335	7,335	6 , 859	6,256				1,079		7,335			0		01/01/2037 .	1.D FM
1	Store Master Funding	1	1	1		1					I . [		1	[							
000101/ 44 0		1	02/20/2020	PAYDOWN		7 000	7 000	7 000	7 004	1	_		_				1	_	50	10/00/0040	1 5 55
86212V-AA-2	I-V-STR 2016-1A A1		03/20/2022 .		h	7,996		7,992	7,994	·····			+2				·····		53	10/20/2046 .	1.E FE
86212V-AD-6	Store Master Funding I-V-STR 2018-1A A1		03/20/2022 .	. PAYDOWN		5,000		4,999			L1 L		1	L				0		10/20/2048 .	1.A FE
1	STORE MASTER FUNDING	1	1	1		, -	, -		,		I		1								
000100 45 4		1	00/00/0000	DAVDOWN		1 050	1 050	1 000	1 040	1	_				1 050		1		^	04/00/0045	1 5 55
86213C-AB-1	LLC-SERIES 2015-1A CLASS A2		03/20/2022 .	. PAYDOWN		1,250	1,250	1,230	1,242		8		ð		1,250			0		04/20/2045 .	1.E FE
863579-VW-5	Structured Adjustable Ra-SARM 2005-17 5A2			PAYDOWN		17.407	17.408				7.154				17.407			0	12	. 08/25/2035	1.D FM
863579-XC-7	Structured Adjustable Ra-SARM 2005 - 18 3A1 .		03/01/2022 .	PAYDOWN														0		09/01/2035 .	
										• • • • • • • • • • • • • • • • • • • •				••••••			• • • • • • • • • • • • • • • • • • • •	0			
86360B-AJ-7	Structured Adjustable Ra-SARM 2006-4 5A1		03/01/2022 .	. PAYDOWN		2,800	2,859	2,341	2,266									0	11	05/01/2036 .	1.D FM
	Structured Asset																				
86363B-AA-3	Securit-SASC 2007-RM1 A1			PAYDOWN					526,666		28,860		28,860					0		.05/25/2047	1 5 55
														••••••				0			1.E FE
86363G-AF-1	Structured Adjustable Ra-SARM 2007-3 3A1		03/01/2022 .	PAYDOWN														0		04/01/2047 .	1.D FM
	SUTTONPARK STRUCTURED SE-SERIES 17-1A CLASS A																				
000507 11 4	COTTONEALING OTHOUTOILED OF CENTED IT IN CENCO A		00 (45 (0000	DAVDOWN		0.040	0.040	0.000	0.000						0.040				00	04 /45 /0074	4.4.55
869507-AA-1			03/15/2022 .	. PAYDOWN		3,010			3,009				1		3,010			0	20	01/15/2071 .	1.A FE
87222E-AB-4	TBW Mortgage-Backed Trus-TBW 2007-1 A2		03/25/2022 .	PAYDOWN					0									0	5	03/25/2037 .	
87222E-AC-2	TBW Mortgage-Backed Trus-TBW 2007-1 A3		03/01/2022 .	PAYDOWN					٥									0	27	03/01/2037 .	
0/222E-AU-2				. FATDOWN		10,003	10,003	0, 122	v	• • • • • • • • • • • • • • • • • • • •								0			
	Terwin Mortgage Trust 20-TMTS 2006-17HE A2B1																				
88156E-AB-2				PAYDOWN							(2,325)		(2,325)					0		01/25/2038 .	1.A FM
	Terwin Mortgage Trust																				
88157V-AB-3	20-TMTS 2007-6ALT A2		03/25/2022 .	PAYDOWN														0		08/25/2038 .	1.A FM
	TRINITY RAIL LEASING L.P-SERIES 2009-1A CLASS																				
89655Y-AA-4			00/10/0000	PAYDOWN		00 440	23,440	00 440	00 444		(4)		(4)		00 440			0	051	11/10/0000	0.0 FF
	A		03/16/2022 .			23,440					(4) .		(4)					0		11/16/2039 .	2.C FE
89656C-AA-1	Trinity Rail Leasing 201-TRL 2010-1A A		03/16/2022 .	. PAYDOWN		64,534	64,534				(1,741)		(1,741)					0		10/16/2040 .	1.F FE
	Trinity Rail Leasing	1								1			1				1				
000570 44 0		I	00/17/0000	DAVDOWN	1	01.000	01.000	50 007	50 457	1	0.040		0.040		64 000	1	1		000	04/17/0040	1.5.55
89657B-AA-2	201-TRL 2019-1A A		03/17/2022 .	PAYDOWN		61,800	61,800				2,342		2,342					0		04/17/2049 .	
89657B-AB-0	Trinity Rail Leasing 201-TRL 2019-2A A1		03/17/2022 .	. PAYDOWN									7					0	144	10/18/2049 .	1.F FE
90187B-AA-9	Two Harbors Investment C-SENIOR UNSECURED	I	01/15/2022 .	MATURITY	1	2,300,000	2,300,000		2,300,032	1	(32)		(32)		2,300,000	1	1	0		01/15/2022 .	4.B Z
	TYSON FOODS INC-SENIOR										(₩)										
		1		1						1			1				1				
902494-AT-0	UNSECURED NOTE		03/15/2022 .	. CALL 100			1,000,000												11,250	06/15/2022 .	2.B FE
	ITE Rail Fund Levered LP-SERIES 21-1A CLASS A	1								1			1				1				
90352W-AD-6		I	03/28/2022	PAYDOWN	1	17.055		17 055	17 055	1			1		17.055	1	1		54	00/00/00F1	1 5 55
											······		······					0		02/28/2051 .	1.F FE
909287-AA-2	UAL 2007 PASS TRUST-FIRST LIEN		01/02/2022 .	SINKING PAYMENT										L				0	1,355	07/02/2022 .	3.C FE
	UNITED AIR 2014-2 A	1		SINKING	1						I Í		1				1			-	
90932Q-AA-4	PASS THRU TR-1ST LIEN SER A	1								1	(8)		(8)				1		516		0.4.55
90932Q-AA-4				. PAYMENT							(8)		(8)					0			2.A FE
	VB-S1 Issuer	I		1	1	1				1	I		1			1	1				1
91823A-AG-6	LLC-VBTOW 2018-1A C	1	02/28/2022	PAYDOWN			2,000,000	2,000,000	2,000,020	1	(20)		(20)		2,000,000		1	n	11.377	.02/15/2048	1.F FE
					1								(20)						, .		
92212K-AA-4			03/15/2022 .	PAYDOWN		2,500	2,500	2,500	2,500				0		2,500			0	13	07/15/2044 .	I.G FE
1	WaMu Mortgage Pass-Throu-WAMU	I		1	1	1				1	I		1			1	1				1
92925V-AF-7	2007-HY1 2A3	1		PAYDOWN						1	(515)						1	n	33	02/01/2037 .	3.B FM
																		0			
92938E-AM-5	WFRBS Commercial Mortgag-WFRBS 2013-C16 A4		02/01/2022 .	PAYDOWN							(162)		( 162)					0		09/01/2046 .	1.A
933638-AA-6	WaMu Mortgage Pass-Throu-WAMU 2006-AR19 1A	l	03/01/2022 .	PAYDOWN	L					L			1,498			L	L	0		01/01/2047 .	. 1.D FM
93363P-AC-4	WaMu Mortgage Pass-Throu-WAMU 2006-AR14 1A3 .	1	03/01/2022 .	PAYDOWN							(1,792)		(1,792)					n			
																		0			
93934F-MD-1	Washington Mutual Mortga-WMALT 2006-2 2CB		03/01/2022 .	. PAYDOWN		2, 179	3,673	2,771	2,771				535		2, 179			0	23	03/01/2036 .	4.B FM
93934N-AC-9	Washington Mutual Mortga-WMALT 2006-5 1A3	1	03/01/2022	PAYDOWN	1				.9,558	1				[				0	97	07/01/2036 .	4.B FM
	Westington Mutual Most With T 0000 5 0000																				
93934N-AR-6	Washington Mutual Mortga-WMALT 2006-5 2CB2		03/25/2022 .	PAYDOWN	h	1,676	2, 196	1,735		<b> </b>	1,144		1, 144		1,676		·····	·····0		07/25/2036 .	1.D FM
94980G-AR-2	Wells Fargo Home Equity -WFHET 2004-2 M4		03/25/2022 .	PAYDOWN		6,243	6,243	4 , 308	6, 173				70	L L	6,243			0	25	12/25/2033 .	. 1.A FM
															,						

## **SCHEDULE D - PART 4**

								en e e a, i te e	leemed or C			Ŭ,			16	T					1
1	2	3	4	5	6	7	8	9	10	Ch	Change In Book/Adjusted Carrying Value					17	18	19	20	21	22
										11	12	13	14	15							NAIC
																					Desig-
																					nation,
																					NAIC
													Total	Total							Desig-
												Current	Change in	Foreian					Bond		nation
												Year's	Book/	Exchange	Book/				Interest/		Modifier
									Prior Year		Current	Other Than	Adjusted	Change in	Adjusted	Foreign			Stock	Stated	and
									Book/	Unrealized	Year's	Temporary	Carrving	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment	· · · J	/Adjusted	Value at	Gain		Total Gain	Received	tractual	Admini-
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/		(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	Wells Fargo Commercial M-WFCM 2016-C32 A3		.03/01/2022	PAYDOWN							(114)		(114)					0		01/01/2059	. 1.A
	Wells Fargo Mortgage Bac-WFMBS 2019-4 A1		.03/01/2022	PAYDOWN							(4, 109)		(4, 109)					0	1,026	09/01/2049	. 1.A
95002K-AA-1	Wells Fargo Mortgage Bac-WFMBS 2020-1 A1		.03/01/2022	PAYDOWN							(621)		(621)					0	171	12/01/2049	. 1.A
050507 10 2	Wendy's Funding LLC-WEN 2019-1A A21		.03/15/2022	PAYDOWN		.7.500	.7,500	.7,500					0					0	71	06/15/2049	
90008X-AG-3	Westgate Resorts	•••••	.03/ 15/ 2022	PATDOWN									0					0			2.0 FE
	2020-1 -WESTR																				
96034L-AA-9			.03/01/2022	PAYDOWN														0		03/01/2034	1.A FE
	William Blair & Company, Trust Certifcate																				
	Series 2009-V			SINKING PAYMENT		11,385							0					0		05/15/2034	
9/064F-AA-3	Willis Engine Structured-WESTF 2020-A A		.03/15/2022	PAYDOWN		40,426							0					0		03/15/2045	1.F FE
97652P-AL-5	WinWater Mortgage Loan T-WIN 2014-1 A11		.03/01/2022	PAYDOWN		16.645	.16.645	.16.541			95		95		16.645			0	67		1 A
	9. Subtotal - Bonds - Industrial and M			affiliated)		57.791.680	60.321.698	56.237.932	56.281.139	48,295	675.883	0	724.178	0	57.116.586	0	611.343	611.343	884.828	XXX	XXX
25099999	7. Total - Bonds - Part 4		1-	/		96,398,743	98,824,000	94,315,199	94,741,936	48,295	709,767	0	758,062	0	95,611,263	0	723,728	723,728	1,245,429	XXX	XXX
250999999	8. Total - Bonds - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
25099999	9. Total - Bonds					96,398,743	98,824,000	94,315,199	94,741,936	48,295	709,767	0	758,062	0	95,611,263	0	723,728	723,728	1,245,429	XXX	XXX
450999999	7. Total - Preferred Stocks - Part 4					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
450999999	8. Total - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
450999999	9. Total - Preferred Stocks					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
59899999	7. Total - Common Stocks - Part 4					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
5989999998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5989999999. Total - Common Stocks						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
5999999999. Total - Preferred and Common Stocks						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
600999999	9 - Totals					96,398,743	XXX	94,315,199	94,741,936	48,295	709,767	0	758,062	0	95,611,263	0	723,728	723,728	1,245,429	XXX	XXX

					Showing		s, Caps, H	0013, Colla	is, Swaps	and Forwa	ius Open a		ni otateme									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												
										Prior	Current											
	Description									Year(s)	Year Initial											
									Strike												Consult.	Lindaa
	of Item(s)									Initial Cost	Cost of						<b>-</b>	<b>.</b> .			Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment			Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted			Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a) ́	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	` Paid ´	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
				e Excluding Variable Annuity Guar				7 through	(1 a.u.)				, and o	XXX	<u> </u>	(200.0000)	0.01	7.001011011			XXX	XXX
							5			0	-	0	0		0	0	0	U	0			
				e Variable Annuity Guarantees Un	der SSAP No.	108				0		0	0	XXX	0	0	0	0	0		XXX	XXX
0219999999. Subt	total - Purchased Op	otions - Hedg	ing Other							0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
02899999999, Subt	total - Purchased Or	otions - Replie	cations							0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	total - Purchased Op			n						0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
FLEX102 - SPX INDEX			ic Ocheratio			1				0	U	0	0	7000	0	U	0		0	U	7000	7000
				V Ohanna Finanzial																		
Equity Index Call		E 1.11.14 E		X-Change Financial	070 04 (00 (000)	0.4./00./00000		0.005.040	40.700				4 005		4 005	0.500		(7.004				0004 0044
Option	Liability Hedge	Exhibit 5	Interest	Access	07804/20/202	04/20/2022 .		3,365,840		6	••••••		1,865	••••••		2,509	0		/			0001, 0014
FLEX89 - SPX INDEX		1											1									
Equity Index Call		I	l	X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZ0	07804/06/202	104/06/2022 .		2,494,473		4						4, 133	0		)			0001, 0014
FLEX129 - SPX INDEX		1											1									
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZ0	07805/20/202	05/20/2022 .		2,546,004		6			3,921			(2,528)	0	<u>(</u> 6,842	)			0001, 0014
FLEX117 - SPX INDEX																						
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	07805/06/202	05/06/2022 .		3,427,680		2						(2,530)	0		)			0001, 0014
FLEX119 - SPX INDEX																						
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	07805/06/202 <sup>.</sup>	105/06/2022 .		4,290,905		9						(3,729)	0	(11,966	)			0001, 0014
FLEX81 - SPX INDEX																			,			,
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	07804/06/202			5,760,552		2			632			4,318	0		)			0001, 0014
FLEX123 - SPX INDEX	Liability lieuge	Exilibit 5	111101031	NCCC33	01004/00/202	1				2							0		,			
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest		07805/20/202			4,201,750		2						(1,699)	0					0001, 0014
	Liability Hedge	Exhibit 5	Interest	Access	0/805/20/202	05/20/2022 .		4,201,750		2						(1,699)	0		)			JUUT, UUT4
PTP 870 - SPX INDEX																						
Equity Index Call				Wells Fargo Bank,				5 000 740					4 705		4 705	0.000		(7.400				
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFX	10904/20/202	04/20/2022 .		5,329,718		4	• • • • • • • • • • • • • • • • • • • •		1,765	•••••	1,765		0	<u>(</u> 7,482	)			0001, 0014
PTP 890 - SPX INDEX				Morgan Stanley &																		
Equity Index Call		<b>_</b>	l	Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB	65305/06/202 <sup>-</sup>	105/06/2022 .		5,025,813		5						( 1 , 104)	0		)			0001, 0014
FLEX100 - SPX INDEX	1	1	1										1									
Equity Index Call		1		X-Change Financial									1									
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZ0	07804/20/202 <sup>.</sup>	04/20/2022 .	-	16,796,120		4145, 108							0	(35,383	)			0001, 0014
FLEX83 - SPX INDEX		1											1									
Equity Index Call		1	1	X-Change Financial															1			
Option	Liability Hedge	Exhibit 5	Interest	Access	07804/06/202	04/06/2022 .				2							0		)			0001, 0014
FLEX125 - SPX INDEX		1																	1			
Equity Index Call		1	1	X-Change Financial															1			
Option	Liability Hedge	Exhibit 5	Interest	Access	078	.05/20/2022		12.658.275	41.591	2						(7,668)	0	(25,206	)			0001, 0014
FLEX111 - SPX INDEX																			1			
Equity Index Call		1		X-Change Financial									1									
Option	Liability Hedge	Exhibit 5	Interest	Access	07805/06/202	05/06/2022				7							n	(35,431	1			0001, 0014
FLEX106 - SPX INDEX	LIAUTITLY HEUGE	LAIIIDIL J		90/0F100/N/3040Z4	010					/							0		/			
		1		Y-Change Einaneial									1									
Equity Index Call	Linkilia, Iladas	Fublic F	1-4	X-Change Financial	070 04 /00 /000	04/00/0000		0 070 004	41 040	4 00.040			0.004		0.004	0.010		(0.004	,			0001 0014
Option	Liability Hedge	Exhibit 5	Interest	Access	07804/20/202	04/20/2022 .		3,373,284		4	·		2,084	····· ··· ··		2,619	0		4			0001, 0014
FLEX85 - SPX INDEX		1																	1			
Equity Index Call		<b>_</b>	l	X-Change Financial									_		_							
Option	Liability Hedge	Exhibit 5	Interest	Access	07804/06/202	104/06/2022 .		4, 143, 195		5						5,556	0		)			0001, 0014
FLEX127 - SPX INDEX		1																	1			
Equity Index Call		1		X-Change Financial									1									
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ	07805/20/202	05/20/2022 .		5,077,038		2			6,778		6,778	(3,935)	0	(11,828	)			0001, 0014
FLEX113 - SPX INDEX	-	1																	1			
Equity Index Call		1		X-Change Financial									1									
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ	07805/06/202 <sup>.</sup>	105/06/2022 .		4.274.100		8						(2,353)	0		)			0001, 0014
				0				,,														

4	0	0	4												10	17	10	10	20	24	20	22
1	2	3	4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative	<b>A</b> (											
										Prior	Current											
	Description									Year(s)	Year Initial											
	of Item(s)								Strike	Initial Cost	Cost of		1			1					Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment		Quality	Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	andat
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a) ́	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	` Paid	` Paid ´	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
FLEX104 - SPX INDEX			\ <i>/</i>						(							(/						()
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	04/20/2021	04/20/2022 .							1,491						)			0001, 0014
FLEX87 - SPX INDEX	, ,																					
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	04/06/2021	04/06/2022 .		3,320,260								4,971	0		)			0001, 0014
FLEX115 - SPX INDEX																						
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	05/06/2021 .	05/06/2022 .		3,424,320								(2,226)	0		)			0001, 0014
FLEX93 - SPX INDEX																						
Equity Index Call		L		X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	04/06/2021 .	04/06/2022 .		1,669,094		21, 117						3,358	0	<u>(</u> 5, 149	)			0001, 0014
FLEX132 - SPX INDEX				X 81 51 1 1																		
Equity Index Call				X-Change Financial	05 /00 /00	05 (00 (0055		4 705 040								(0	-		J I			
Option	Liability Hedge	Exhibit 5	Interest	Access	05/20/2021 .	05/20/2022 .		1,705,240								(2,375)	0	(5,494	)			0001, 0014
FLEX95 - SPX INDEX				V Ohanna Finanzial																		
Equity Index Call	Linkster, Hadas		1-4	X-Change Financial	04/00/0004	04/06/2022 .		2,512,806	40 7004	05 740			005		005		_					0001 0014
Option FLEX134 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	04/06/2021 .	04/06/2022 .		2,512,806								5,935	0		)			0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	.05/20/2021			4,273,495	43.8787				.8,542				0	(14,907	\ \			0001, 0014
FLEX142 - SPX INDEX	Liability neuge	LAIIIDIL J	Interest	Access		03/20/2022 .		4,2/0,400		01, 137			0, 342		0, 342				/			0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest		06/18/2021	06/20/2022 .										(885)	0		)			0001, 0014
FLEX144 - SPX INDEX	Liability neuge	EXHIBIT 5	111101031					0,000,402								(003)			/			0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest		06/18/2021	06/20/2022 .										(2,742)	0	(11,068	)			0001, 0014
FLEX146 - SPX INDEX																			,			,
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	06/18/2021			4,248,737								(2,916)	0	(11,462	)			0001, 0014
FLEX156 - SPX INDEX													,,			, , , , , , , , , , , , , , , , , , , ,		,				,
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	_07/06/2021	07/06/2022 .		2,669,323									0		)			0001, 0014
FLEX162 - SPX INDEX	-																					
Equity Index Call				X-Change Financial									1			1						
Option	Liability Hedge	Exhibit 5	Interest	Access	08/06/2021	08/05/2022 .		19,808,618								(34,389)	0	(40,860	)			0001, 0014
FLEX164 - SPX INDEX																						
Equity Index Call		L	1.	X-Change Financial						1					_							
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	08/06/2021	08/05/2022 .		1,803,445					5 , 838			(3,521)	0		)			0001, 0014
FLEX166 - SPX INDEX																1						
Equity Index Call		E 1 11 1 E		X-Change Financial	00 /00 /000 :	00.05.0005		0 700 105					0.0		o o=-	15 365		10 515	,			0004 0014
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	08/06/2021 .	08/05/2022 .		2,708,495								(5,795)	0		/	·····		0001, 0014
FLEX168 - SPX INDEX				V Change Einensiel									1			1						
Equity Index Call Option	Liphility Hodgo	Exhibit 5	Interest	X-Change Financial Access 987GPTS07KV3U0JZ0078	08/06/2021	08/05/2022 .		2,711,823	44.3652				9.975			(6.004)						0001 0014
FLEX170 - SPX INDEX	Liability Hedge	EXHIDIL D	interest	Access 9R7GPTS07KV3UQJZQ078 .		08/05/2022 .		2,/11,823		∠ö,305						(6,294)			/			0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	.08/06/2021	.08/05/2022		2,714,485	44.3652	29.709			.10.447				0					0001, 0014
FLEX174 - SPX INDEX	Liability lieuge	Exilibit J	microst							23,109									,			
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	08/06/2021	08/05/2022 .											0					0001, 0014
FLEX176 - SPX INDEX				311 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1												(0,010)			[			
Equity Index Call				X-Change Financial									1			1						
Option	Liability Hedge	Exhibit 5	Interest		08/06/2021	08/05/2022 .	L	4,562,961		67,950			23,895	l		(17,360)	0	(16,614	)			0001, 0014
PTP 1365 - SPX INDEX	.,							. ,,														,
Equity Index Call				BNP Paribas London									1			1						
Option	Liability Hedge	Exhibit 5	Interest		06/18/2021	06/20/2022 .		4,030,499						l.		(2,508)	0		)			0001, 0014
													,000									.,

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1	2	3	4	5	6	7	8	9	10	11 Cumulative Prior	12 Current	13	14	15	16	17	18	19	20	21	22	23
	Description								Chrilton	Year(s)	Year Initial										Cons dit	Llades
	of Item(s) Hedged,								Strike Price,	Initial Cost of Un-	Cost of Un-						Total	Current	Adjustment		Credit	Hedge Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	` Paid ´	` Paid ´	Income	Value	Code	Fair Value	(Decrease)	B./A.Č.V.	Accretion	Item	Exposure	Entity	(b)
PTP 1306 - SPX INDEX																						1
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK55	7306/04/2021					124,812						(8,859)	0		,			0001, 0014
PTP 1331 - SPX INDEX	Liability neuge	LAIIIDIL J	interest	Darchays Dark FEG, 0003Er / 0F31/00035	1300/04/2021	00/00/2022 .		13, 191, 323 .						•••••			0		/			0001, 0014
Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK55	7306/04/2021	06/06/2022 .		6,522,951		61,862							0	(15,002	)			0001, 0014
PTP 1364 - SPX INDEX Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7306/04/2021	06/06/2022 .		2.808.722	42.2989							(2,448)	0		)			0001, 0014
PTP 1395 - SPX INDEX	21001111) 1100g0									20,010									,			
Equity Index Call																						
Option PTP 1465 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7306/04/2021	06/06/2022 .		2,404,565					4,823	•••••	4,823	(2,278)	0	<u>(</u> 6,313	)			0001, 0014
Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK55	7306/04/2021	06/06/2022 .		2,847,462								(4,390)	0		)			0001, 0014
PTP 1397 - SPX INDEX																						1
Equity Index Call	Liebility Hedge	Evhibit E	Interest	Para Java Bank DLC CECSEEZV IDE 1701//EE	7307/06/2021	07/06/2022 .		2 200 502		25 200			0 500		0 500	(6.025)	0		,			0001 0014
Option PTP 1424 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK55	/30//06/2021	0770672022 .		3, 298, 583.									0		)			0001, 0014
Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7307/06/2021	07/06/2022 .		2,717,053								(5,557)	0		)			0001, 0014
PTP 1287 - SPX INDEX Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7307/20/2021	07/20/2022 .				24, 112						(3,361)	0		)			0001, 0014
PTP 1312 - SPX INDEX	2.407.777) 1.6090																		,			
Equity Index Call																						1
Option FLEX184 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK55	7307/20/2021	07/20/2022 .	••••••	18,699,383						•••••		(25,404)	0	(40,634	)			0001, 0014
Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	7809/03/2021	09/06/2022 .		2,748,471								(3,226)	0		)			0001, 0014
FLEX186 - SPX INDEX																						1
Equity Index Call Option	Liebility Hedge	Exhibit 5	Interest	X-Change Financial Access	7809/03/2021	09/06/2022 .		1,833,221								(2,260)	0	(2,743	,			0001, 0014
FLEX188 - SPX INDEX	Liability Hedge		Interest	Access	1003/03/2021	03/00/2022 .		1,000,221						•••••			0		/			0001, 0014
Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	7809/03/2021	09/06/2022 .		13,803,581		115,245						(23,958)	0	(27,872	)			0001, 0014
FLEX190 - SPX INDEX Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	7809/03/2021	09/06/2022 .										(11,727)	0	(13,077	)			0001, 0014
FLEX192 - SPX INDEX	.,							,,														
Equity Index Call	1		1-44	X-Change Financial	70 00 (00 (0004	00/00/00000		1 040 100	45 0540	10 110			0.450		0.450	(4 007)		(4 700				0001 0014
Option FLEX194 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ0	7809/03/2021	09/06/2022 .		1,848,188.					8 , 456				0		/			0001, 0014
Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	7809/03/2021	09/06/2022 .	·····	2,775,003		30,576							0		)			0001, 0014
FLEX198 - SPX INDEX				V Change Einensiel																		1
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	X-Change Financial Access	7809/03/2021	09/06/2022 .		6,506,755		87.087						(20,455)	n	(21,062				0001, 0014
FLEX200 - SPX INDEX																	0		1			
Equity Index Call		<b>_</b>	l	X-Change Financial																		I
Option PTP 1337 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access	7809/03/2021	09/06/2022 .	·	1,865,876 .									0		)			0001, 0014
Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7307/20/2021	07/20/2022 .		3,451,979		34,316						(5,420)	0		)			0001, 0014
PTP 1369 - SPX INDEX	-																					1
Equity Index Call	liability U-d	Evhibit 5	Intercet		79 07 /00 /0004	07/00/0000		0 005 000	40.0000	00.005			0.400		0 400	(E 005)	^	(7.548				0001 0014
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK55	7307/20/2021	07/20/2022 .		2,895,232								(5,025)	0	(7,548	/			0001, 0014

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1	2	3	4	5	6	7	8	9	10	11 Cumulative Prior	12 Current	13	14	15	16	17	18	19	20	21	22	23
	Description								Chrilton	Year(s)	Year Initial										C	Usdas
	of Item(s) Hedged,								Strike Price,	Initial Cost of Un-	Cost of Un-						Total	Current	Adiustment		Credit	Hedge Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code F	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
PTP 1412 - SPX INDEX																						
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	07/20/2021	07/20/2022 .		2,240,303		26,210							0		)			0001, 0014
PTP 1426 - SPX INDEX	21451111) 110490	Ex																	,			
Equity Index Call																						
Option PTP 1441 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	07/20/2021	07/20/2022 .	•••••	2,291,938		6			8,648	•••••		(4,842)	0		)			0001, 0014
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	07/20/2021	07/20/2022 .		3,898,481		5							0	(12,467	)			0001, 0014
PTP 1456 - SPX INDEX																						
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK5573 .	07/20/2021	.07/20/2022		2,787,157		41,536							0	( 10, 128	,			0001, 0014
PTP 1339 - SPX INDEX	Liability neuge		IIII CI CSI	Darchays Dalik FEC. 0000ELTV0F0T700R0070.		01/20/2022 .	•••••	2,707,137					12,145			(1,352)	0	(10,120	/			0001, 0014
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	08/20/2021	08/19/2022 .		2,854,271		5				•••••		(5,837)	0		)			0001, 0014
PTP 1443 - SPX INDEX Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	08/20/2021	08/19/2022 .		4,670,235								(14,390)	0	(14,783	)			0001, 0014
FLEX204 - SPX INDEX	,									,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,			
Equity Index Call				X-Change Financial				5 000 070	10 577				15 105		15 105	(0.000)		(7.000				
Option PTP 153 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	09/20/2021	09/20/2022 .	••••••	5,282,876		3						(3,226)	0	(7,880	)			0001, 0014
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09	05/20/2021	05/20/2022 .		1,837,877		9 18,906						(1,301)	0		)			0001, 0014
FLEX206 - SPX INDEX																						
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	X-Change Financial Access	09/20/2021	09/20/2022 .			43.5773							(13,010)	0	(29,276				0001, 0014
FLEX208 - SPX INDEX	Liability nedge	Exilibit 5												•••••		(10,010)						0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	09/20/2021	09/20/2022 .		7,090,898.		369,760						(7,853)	0	( 17,010	)			0001, 0014
FLEX210 - SPX INDEX Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	09/20/2021	09/20/2022 .		3,551,550		38,260						(4,598)	0	(9,329	)			0001, 0014
FLEX212 - SPX INDEX																						
Equity Index Call Option	Liebility Hedge	Exhibit 5	Interest	X-Change Financial Access	09/20/2021	09/20/2022 .		.2,666,931		3						(3,806)	0	(7.431				0001 0014
FLEX215 - SPX INDEX	Liability Hedge	EXHIDIL 5	Interest	Access	09/20/2021	09/20/2022 .	•••••	2,000,931.					14, 52/	•••••		(3,806)	0		)			0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	09/20/2021	09/20/2022 .		2,675,428		35,022						(4,749)	0		)			0001, 0014
FLEX220 - SPX INDEX Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access						5						(3,212)	0		)			0001, 0014
FLEX223 - SPX INDEX	,							,,					,		,							1
Equity Index Call	1.1.4.11.4.11.4	FURTHER F	Indexes d	X-Change Financial	10 /00 /0001	10/00/00000		0.000 404	40.0057				45 000		15 000	(0.000)		17 101				0001 0011
Option FLEX226 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access	10/06/2021	10/06/2022 .		2,669,184.		5	••••••						0	(7,134	/			0001, 0014
Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	10/06/2021	10/06/2022 .		3,568,512		5							0	(10,741	)			0001, 0014
FLEX228 - SPX INDEX				X-Change Financial																		1
Equity Index Call Option	Liability Hedge	Exhibit 5	Interest	Access	10/06/2021	10/06/2022 .		3,591,200		5							n	(13,496				0001, 0014
PTP 1285 - SPX INDEX	,			Morgan Stanley &			[						20,011						1			
Equity Index Call				Co. International		07/06/07													ļ			
Option PTP 1310 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	PLC	07/06/2021	07/06/2022 .	<u> </u>	4,281,426					6,772		6,772	<u>(</u> 3, 182)	0		)			0001, 0014
Equity Index Call				Morgan Stanley & Co. International																		1
Option	Liability Hedge	Exhibit 5	Interest	PLC	07/06/2021	07/06/2022 .		2,283,423		14, 123						(1,797)	0	(3,444	)			0001, 0014

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												
										Prior	Current											
	Description										-											
	Description									Year(s)	Year Initial											
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment		Quality	Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	andat
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description														0.11	E de Malere							
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
PTP 1335 - SPX INDEX				Morgan Stanley &																		
Equity Index Call				Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	07/06/2021	07/06/2022 .			43.4354							(22,865)	0	(38,871)				0001, 0014
PTP 1289 - SPX INDEX				Morgan Stanley &																		
Equity Index Call				Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC	08/06/2021	08/05/2022 .		3,515,083								(3,820)	0					0001, 0014
PTP 1291 - SPX INDEX	, ,			Morgan Stanley &																		
Equity Index Call				Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	08/20/2021	08/19/2022 .		2,875,473					6,829			(3,342)	0					0001, 0014
PTP 1314 - SPX INDEX	Erubility houge	2/11/01/10		Morgan Stanley &																		
Equity Index Call				Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC	08/20/2021				44,4167							(23, 165)	n	(27,640)				0001, 0014
PTP 1371 - SPX INDEX	Liability Houge			Morgan Stanley &							••••••						0	(21,040)		••••••		
		1	1	Co. International		1																
Equity Index Call	Lishility Hadaa	Evhibit E	Interest		08/20/2021	08/19/2022 .		2,795,937		07 001						(5.070)	0					0001 0014
Option PTP 1400 - SPX INDEX	Liability Hedge	Exhibit 5	Interest					2,/90,93/								(5,978)	0					0001, 0014
				Morgan Stanley &																		
Equity Index Call				Co. International													-					
Option	Liability Hedge	Exhibit 5	. Interest	PLC 4PQUHN3JPFGFNF3BB653 .	08/20/2021	08/19/2022 .		3,740,934									0					0001, 0014
PTP 1283 - SPX INDEX																						
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	06/04/2021	06/06/2022 .		5, 367, 133					5,955			(1,510)	0	<u>(</u> 7,795)				0001, 0014
PTP 1474 - SPX INDEX																						
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFXT09 .	06/04/2021	06/06/2022 .		6,555,105								(10,362)	0	(24,385)				0001, 0014
PTP 1308 - SPX INDEX																						
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFXT09	.06/18/2021	06/20/2022 .											0	(4, 152)				0001, 0014
PTP 1333 - SPX INDEX										, .			,		,							,
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFXT09 .	.06/18/2021	06/20/2022 .											0	(39,830)				0001, 0014
PTP 1438 - SPX INDEX	Liability houge	Exilibre 5		N.A													0	(00,000)				0001, 0014
Equity Index Call				Wells Fargo Bank.																		
Option	Liability Hedge	Exhibit 5	Interest		06/18/2021				41.6645						6,189		0	(6,718)				0001, 0014
	Liability neuge	EXHIBIT J		N.A KD II I DOFHI III III III KOI X103 .									0, 109		0, 109			(0,710)				0001, 0014
PTP 1454 - SPX INDEX		1	1	Welle Ferre Perk		1																
Equity Index Call	Linkilia, Ilain	Fubility F	1	Wells Fargo Bank,	00 /10 /0001	00,000,00000		1 047 507	44 0045	00 100			5.840		F 0.40	(1 707)		(0.000)				1100 1000
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFXT09 .	06/18/2021	06/20/2022 .		1,947,587					5,840		5,840	(1,727)	0					0001, 0014
PTP 1367 - SPX INDEX		1	1			1																
Equity Index Call		I	I	Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	07/06/2021	07/06/2022 .							7,717		7,717	(4,074)	0	(7,008)				0001, 0014
PTP 197 - SPX INDEX		1	1			1																
Equity Index Call		1	1	Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	04/20/2021	04/20/2022 .		5, 125,695									0	(16,301)				0001, 0014
PTP 199 - SPX INDEX		1	1			1																
Equity Index Call		1	1	Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest		05/06/2021	05/06/2022 .		3,429,806									0	(12,238)				0001, 0014
FLEX233 - SPX INDEX		1	1																			
Equity Index Call		1	1	X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	10/20/2021			1,856,300								(5, 151)	0					0001, 0014
FLEX235 - SPX INDEX										20,000												
Equity Index Call		1	1	X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	10/20/2021	10/20/2022 .		2,796,834									0	( 10,094)				0001, 0014
MAV7 - SPX INDEX	Liautity neuge	EXILIBIL S		access an/ur rou/n//acu/J24/0/0 .													0	(10,094)				0001, 0014
		1	1	Wollo Fargo Bank																		
Equity Index Call	Liebility Under	Evhibit 5	Intercet	Wells Fargo Bank, N.A KB1H1DSPRFMYMCUFXT09 .	04/20/2021	.04/20/2022			44 0404				7 000		7 000	451		(00.000)				0001 0014
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .		04/20/2022 .					••••••		7,036				0	(29,820)				0001, 0014
MAV8 - SPX INDEX		1	1																			
Equity Index Call			1																			
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	04/06/2021	04/06/2022 .		15,977,794		131, 124			2,515		2,515		0	(31,973)				0001, 0014

					Showing a		s, Caps, F		irs, Swaps a	anu r urwa	us Open a											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												
										Prior	Current											
	Description									Year(s)	Year Initial											
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
										of Un-	Un-						Total	Comment	Additional and			Effectiveness
	Hedged,					<b>.</b>			Price,	-	-		<b>–</b> /					Current	Adjustment			
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying			at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential		Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
MAV9 - SPX INDEX																						, i
Equity Index Call				Wells Fargo Bank,																		, i
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	05/20/2021 .	05/20/2022 .										2, 141	0					0001, 0014
MAV10 - SPX INDEX																						, i
Equity Index Call				Wells Fargo Bank,																		ŀ
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	05/06/2021	05/06/2022 .				148,073						2,117	0	(36, 105)				0001, 0014
MAV21 - SPX INDEX																						, i
Equity Index Call				Wells Fargo Bank,																		, i
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	06/04/2021	06/06/2022 .										8,232	0					0001, 0014
MAV23 - SPX INDEX																						ŀ
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK5573 _	06/18/2021	06/20/2022 .				147,978						4,386	0	(35,886)	·····			0001, 0014
MAV25 - SPX INDEX																						, i
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	07/06/2021	07/06/2022 .										(1,886)	0	(33,642)				0001, 0014
MAV27 - SPX INDEX																						, i
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Societe General 02RNE81BXP4R0TD8PU41 .	07/20/2021	07/20/2022 .											0	(33,083)				0001, 0014
MAV29 - SPX INDEX																						, i
Equity Index Call																						
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK5573 _	_08/06/2021	08/05/2022 .		13,431,791		121,081			<u>4</u> 2,578			(34,039)	0	(29,605)				0001, 0014
MAV31 - SPX INDEX																						, i
Equity Index Call	Color Carlos	Fulliple F	1-4		00 /00 /0001	00/10/0000		10 000 100	44,4167						45 404	(45,004)	0	(28,507)				0001 0014
Option MAV33 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	08/20/2021	08/19/2022 .	•••••	13,030,123						••••••		(45,391)	0	(28,507)				0001, 0014
Equity Index Call																						ŀ
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .		.09/06/2022 .										(64,856)	0					0001, 0014
MAV35 - SPX INDEX	Liability lieuge	EXHIBIT 5	111101031	barerays bank red . dodder rid strookdord .												(04,000)	0					3001, 0014
Equity Index Call				Wells Fargo Bank,																		ŀ
Option	Liability Hedge	Exhibit 5	Interest	N.A. KB1H1DSPRFMYMCUFXT09 .	09/20/2021	09/20/2022 .										(11,507)	0	(27,846)				0001, 0014
MAV37 - SPX INDEX	Erability houge																					3001, 0014
Equity Index Call				Wells Fargo Bank,																		ŀ
Option	Liability Hedge	Exhibit 5		N.A. KB1H1DSPRFMYMCUFXT09	10/06/2021	10/06/2022				122,959							0	(29,982)				0001, 0014
MAV39 - SPX INDEX																						
Equity Index Call																						ŀ
Option	Liability Hedge	Exhibit 5	Interest	Societe General 02RNE8IBXP4R0TD8PU41 .				12.584.615		107.762						(47,090)	0	(26,276)				0001, 0014
PTP 1292 - SPX INDEX	, ,			Morgan Stanley &																		
Equity Index Call				Co. International	1																	P
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	10/20/2021			5, 198, 999									0					0001, 0014
PTP 1342 - SPX INDEX				Morgan Stanley &																		P
Equity Index Call				Co. International																		P
Option	Liability Hedge	Exhibit 5		PLC 4PQUHN3JPFGFNF3BB653 .	10/20/2021	10/20/2022 .		14,857,130	46.722757				71,993	.	71,993	(24,586)	0	(31,409)				0001, 0014
PTP 1374 - SPX INDEX				Morgan Stanley &	1																	P
Equity Index Call				Co. International																		P
Option	Liability Hedge	Exhibit 5		PLC 4PQUHN3JPFGFNF3BB653 .	10/20/2021	10/20/2022 .		5, 498, 240								(10,932)	0	(13,438)	-			0001, 0014
PTP 1402 - SPX INDEX				Morgan Stanley &																		P
Equity Index Call		<b>-</b>		Co. International																		
Option	Liability Hedge	Exhibit 5		PLC	10/20/2021	10/20/2022 .		3,240,409	47.11286934							(7, 174)	0					0001, 0014
PTP 1458 - SPX INDEX				Morgan Stanley &																		P
Equity Index Call		<b>-</b>		Co. International																		
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	10/06/2021	10/06/2022 .		2,380,027								(4,912)	0		·····			0001, 0014
PTP 1340 - SPX INDEX																						P
Equity Index Call		E 1 11 14 E		Wells Fargo Bank,	10 (00 (0001	40.000.00000		40.040.005	40.0055	440 570			F7 550		F7 550	(014,000)		(00.001)				0004 0044
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	10/06/2021	10/06/2022 .		13,046,925		110,572						(241,230)	0	(26,961)	<u> </u>			0001, 0014
PTP 1372 - SPX INDEX				Walla Franz Brak																		P
Equity Index Call Option	Liability Hedge	Exhibit 5		Wells Fargo Bank, N.A. KB1H1DSPREMYMCUFXT09	10/06/2021			5.568.338	43.6355	53, 123						(7.099)	0	( 12,953)				0001, 0014
UP 1 1011	LIANIIILY HEUGE	LAIIDIL J	milerest	ND IN INSTREMENTION	10/00/2021					ioo, 125							U	(12,903)				JUU I, UU I4

	-		r .				s, Caps, Fio															
1	2	3	4	5	6	(	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												
										Prior	Current											
	Description									Year(s)	Year Initial											
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment			Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or		Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code Fa	ir Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
FLEX240 - SPX INDEX																						
Equity Index Call		E 1 11 14 E		X-Change Financial	44 (05 (0004	11/01/0000		0.044.070	40.0750	00.007			00,400		00 400	(0.040)		(0.505				0004 0044
Option FLEX243 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021	11/04/2022 .		6,641,979		38,997	•••••				23,462		0					0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021					3						(29, 115)	0					0001, 0014
FLEX245 - SPX INDEX	Liability houge	Exhibit 0														(20,110)						0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021			6,688,343								(14,997)	0	(15,774				0001, 0014
FLEX247 - SPX INDEX																						
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021	11/04/2022 .		1,914,056								(4,800)	0		<u> </u>			0001, 0014
FLEX249 - SPX INDEX					1																	
Equity Index Call	linhility U-d	Evhibit 5	Interet	X-Change Financial	11/05/0004	11/04/0000		1 010 400	40 0750	04.040			10 040		10 040	(E. 000)	•	/E 040				0001 0014
Option FLEX252 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021	11/04/2022 .		1,916,498		3	•••••				12,843		0	(5,219				0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	11/05/2021					3					21,706		0					0001, 0014
FLEX254 - SPX INDEX	Liability houge	Exhibit 0											21,700									0001, 0014
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	.11/05/2021			3,859,866		55,920						(14,960)	0	(13,673				0001, 0014
FLEX260 - SPX INDEX																						
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	11/19/2021	11/18/2022 .		2,874,306		31,851					20 , 388		0					0001, 0014
FLEX264 - SPX INDEX																						
Equity Index Call Option	lichility Hedge	Evhibit E	Interest	X-Change Financial Access	11/19/2021										25,648	(10,134)	0					0001, 0014
MAV47 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .		11/10/2022 .		2,090,014								(10,134)	0					0001, 0014
Equity Index Call				Wells Fargo Bank,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	11/05/2021					5					80,733	(93,354)	0					0001, 0014
PTP 1515 - SPX INDEX																,						,
Equity Index Call				Bank of America,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A B4TYDEB6GKMZ0031MB27 .	11/19/2021	11/18/2022 .		5,514,462		32,515					20,813	(7,073)	0					0001, 0014
PTP 1516 - SPX INDEX																						
Equity Index Call	I Salas I Salus I Janlara		1-4	Bank of America, DATVDEDCCKNZ0001ND07	11/10/0001	11/10/0000		0 000 004	40.0700	00 000			14 010		14 040	(4.000)		(F. 504				0001 0014
Option PTP 1517 - SPX INDEX	Liability Hedge	Exhibit 5	Interest	N.A B4TYDEB6GKMZ0031MB27 .	11/19/2021	11/18/2022 .		3,632,081							14,619		0	(5,584				0001, 0014
Equity Index Call				Bank of America,																		
Option	Liability Hedge	Exhibit 5	Interest	N.A	11/19/2021										70,759	(24,608)	0					0001, 0014
PTP 1518 - SPX INDEX																						,
Equity Index Call				Bank of America,	1																	
Option	Liability Hedge	Exhibit 5	Interest	N.A B4TYDEB6GKMZ0031MB27 .	11/19/2021	11/18/2022 .		4,761,326		6						(9,993)	0	( 10,803				0001, 0014
MAV49 - SPX INDEX																						
Equity Index Call		E 1 11 1 E			44 /40 /000 -	44 (40 (0000)		44 004 405							04 70-	(70.000)	-	(00.0				0004 0014
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	11/19/2021	11/18/2022 .		11,391,163		96,538					61,795	(70,098)	0	(23,604				0001, 0014
FLEX270 - SPX INDEX Equity Index Call				Y_Change Einaneial	1																	
Option	Liability Hedge	Exhibit 5	Interest	X-Change Financial Access	12/06/2021												n	( 14,299				0001, 0014
FLEX272 - SPX INDEX	Liubility nougo	Exilipit U		100000													0					
Equity Index Call				X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access	12/06/2021			3,714,845		24,724					17 , 002		0					0001, 0014
FLEX274 - SPX INDEX					1																	
Equity Index Call		L		X-Change Financial																		
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	12/06/2021	12/06/2022 .		12, 118,611							72,948	(15,927)	0	(25,866	<u> </u>			0001, 0014
PTP 1010 - SPX INDEX																						
Equity Index Call	lishility Hadro	Evhibit 5	Interest	Paro Javo Bank DLC CECCEETV DE 170 WEETO	10/06/0001	12/06/2022		4,780,555	AE 0403	69,149					47 550	(12,375)		(16,861				0001 0014
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7VJP5170UK5573 .	12/06/2021	12/06/2022 .		4,/00,000								(12,3/5)	0	(10,861				0001, 0014

1	2	3	4	5	6		8	9	10	11	12	13	14	15		17	18	19	20	21	22	
			1								.=			10	16		10	15	20	~ '		23
										Cumulative												1
										Prior	Current											1
	Description									Year(s)	Year Initial											
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment		Quality	Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counte	erparty Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearing		Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code Fair	Value	(Decrease)	B./A.Č.V.	Accretion	Item	Exposure	Entity	(b)
PTP 1008 - SPX INDEX																						
Equity Index Call																						1
	ability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7V	VJP5170UK557312/06/2021 .	12/06/2022 .		1,819,228		23,792					16, 361	(4, 161)	0		)			0001, 0014
PTP 1004 - SPX INDEX																						1
Equity Index Call																						1
Option Lia	ability Hedge	Exhibit 5	Interest	Barclays Bank PLC . G5GSEF7V	VJP5170UK557312/06/2021 .	12/06/2022		4,506,874							31,204	(7,614)	0	(11,064	)			0001, 0014
MAV41 - SPX INDEX																						1
Equity Index Call				Wells Fargo Bank,																		
	ability Hedge	Exhibit 5	Interest	N.A KB1H1DSP	PRFMYMCUFXT0912/06/2021 .	12/06/2022 .		14 , 766 , 459		'130, 162					89,513	(53,084)	0	(31,738	)			0001, 0014
MAV43 - SPX INDEX																						1
Equity Index Call Option Lia	ability Hedge	Exhibit 5	Interest	Societe General 02RNE81B	BXP4R0TD8PU41 12/20/2021 .	. 12/20/2022 .			45,6802	105,071						(38,595)	0	(25,620				0001, 0014
FLEX277 - SPX INDEX	autitly neuge	LANDIU J	milerest	SUCTERE GEHERAL UZHNEGID	DARMOUDOF041 12/20/2021 .	12/20/2022 .		12,004,003								(30,393)	0		/			0001, 0014
Equity Index Call				X-Change Financial									1					1				1
	ability Hedge	Exhibit 5	Interest		07KV3UQJZQ078 12/20/2021 .				45.6802	54.590			39.634			(7,869)	n	(13,311				0001, 0014
FLEX279 - SPX INDEX																						
Equity Index Call				X-Change Financial																		1
	ability Hedge	Exhibit 5	Interest		07KV3UQJZQ078 12/20/2021 .	12/20/2022 .		12.976.557		109.550						(15,913)	0		)			0001, 0014
FLEX283 - SPX INDEX	., .,																					
Equity Index Call				X-Change Financial																		1
	ability Hedge	Exhibit 5	Interest	Access 9R7GPTS0	07KV3UQJZQ07812/20/2021 _	. 12/20/2022 .		2,812,895		40,851						(6,834)	0	<u>(</u> 9,961	)			0001, 0014
FLEX285 - SPX INDEX																						1
Equity Index Call				X-Change Financial																		1
	ability Hedge	Exhibit 5	Interest	Access 9R7GPTS0	07KV3UQJZQ07812/20/2021 .	12/20/2022 .		1,880,380							21,650	(5, 102)	0		)			0001, 0014
PTP 1028 - SPX INDEX																						1
Equity Index Call		E 1 11 14 E				40.000.00000		4 070 000	45,0000	45 504			00.050		00.050	(7.407)		(44,400				0004 0044
Option Lia FLEX292 - SPX INDEX	ability Hedge	Exhibit 5	Interest	Citibank N.A E570DZWZ	Z7FF32TWEFA7612/20/2021 .	12/20/2022	•••••	4,870,938						••••••	33,059		0	(11,103	)			0001, 0014
Equity Index Call				X-Change Financial																		1
	ability Hedge	Exhibit 5	Interest		07KV3UQJZQ07801/06/2022 .	01/06/2023 .											0	( 16,008				0001, 0014
FLEX293 - SPX INDEX	ability neuge	LAIIDIL J	milerest	Access	0/10/2022 .	01/00/2023		11, 575, 245									0		,			0001, 0014
Equity Index Call				X-Change Financial																		1
	ability Hedge	Exhibit 5	Interest		07KV3UQJZQ07801/06/2022 .	.01/06/2023				j	23,876					(3,245)	0		)			0001, 0014
FLEX296 - SPX INDEX	.,																					1
Equity Index Call				X-Change Financial									1					1				1
Option Lia	ability Hedge	Exhibit 5	Interest	Access	07KV3UQJZQ07801/06/2022 .	01/06/2023 .		1,922,295		i					19,011	(4,025)	0		)			0001, 0014
PTP 1542 - SPX INDEX	-																					1
Equity Index Call																						1
	ability Hedge	Exhibit 5	Interest	Citibank N.A E570DZWZ	Z7FF32TWEFA7601/06/2022 .	01/06/2023		11,578,867		j			73,795		73,795	( 15, 164)	0	(23,796	)			0001, 0014
PTP 1545 - SPX INDEX																						1
Equity Index Call		E 1 11 12 E			7755007855170	04/00/0000		4 540 000					a		04 470	(0.00-)	-		,			0004 0014
Option Lia PTP 1549 - SPX INDEX	ability Hedge	Exhibit 5	Interest	Citibank N.A E570DZWZ	Z7FF32TWEFA7601/06/2022 .	01/06/2023 .		4,546,899		·					31,479		0	( 10 , 151	/			0001, 0014
Equity Index Call													1					1				1
	ability Hedge	Exhibit 5	Interest	Citibank N.A E570DZWZ	Z7FF32TWEFA7601/06/2022 .	.01/06/2023				;					27,631	(6,825)	0					0001, 0014
MAV46 - SPX INDEX	ability hodye	Exilipit J		UT UDZIN N.A LU/UDZINZ	2.1.1 0211121 ATO					·							0		/			
Equity Index Call																						1
	ability Hedge	Exhibit 5	Interest	Societe General 02RNE81B	BXP4R0TD8PU4101/06/2022 .	01/06/2023 .				;				l		(58,814)			)			0001, 0014
MAV52 - SPX INDEX																						.,
Equity Index Call				Wells Fargo Bank,									1					1				1
	ability Hedge	Exhibit 5	Interest		PRFMYMCUFXT0901/20/2022 .	01/20/2023 .		11,696,730							77,067		0		)			0001, 0014
PTP 1532 - SPX INDEX						1										/		1				1
Equity Index Call				Wells Fargo Bank,									1					1				1
	ability Hedge	Exhibit 5	Interest	N.A KB1H1DSP	PRFMYMCUFXT0901/20/2022 .	01/20/2023 _		8,038,489							35,216	2,026	0	(11,356	)			0001, 0014
FLEX302 - SPX INDEX																						1
Equity Index Call				X-Change Financial													-					
Option Lia	ability Hedge	Exhibit 5	Interest	Access	07KV3UQJZQ07801/20/2022 .	01/20/2023 .		4,533,524							22,984	(292)	0		)			0001, 0014

1	2	2	4	5	6		8	9	10	11	12	13	14	15 16	17	18	19	20	21	22	22
I	Z	3	4	5	0	'	0	9	10			15	14	15 10	17	10	19	20	21	22	23
										Cumulative											
										Prior	Current										
	Description									Year(s)	Year Initial										
	of Item(s)								Strike	Initial Cost	Cost of									Credit	Hedge
	Hedged,								Price,	of Un-	Un-					Total	Current	Adjustment		Quality	Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/		Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current A	djusted		Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year C	arrying		Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code Fair Value	(Decrease)	B./A.Č.V.	Accretion	Item	Exposure	Entity	(b)
FLEX311 - SPX INDEX	•								· · ·						í.						
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078	01/20/2022	01/20/2023 .		2.758.770								0		)			0001, 0014
FLEX305 - SPX INDEX	, •																	-			
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access	01/20/2022	01/20/2023 .		11,831,301								0		)			0001, 0014
FLEX307 - SPX INDEX	, •																	-			
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access	01/20/2022	01/20/2023 .		2,737,236								0		)			0001, 0014
MAV55 - SPX INDEX	,				1						[		,	,							
Equity Index Call		1		Goldman Sachs		1															
Option	Liability Hedge	Exhibit 5	Interest	International W22LROWP21HZNBB6K528	02/04/2022	02/06/2023	L	12,335,526								)0		)			0001, 0014
PTP 1567 - SPX INDEX				Morgan Stanley &		1	I	· · · [			[					1					
Equity Index Call				Co. International																	
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653	02/04/2022	02/06/2023 .		10,922,953							1,975	0	(15,216	)			0001, 0014
FLEX317 - SPX INDEX	, .					1															
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access	02/04/2022	02/06/2023 .		3,637,868								0	(5,418	)			0001, 0014
FLEX318 - SPX INDEX	., .,										,,			,,		,					,
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078		02/06/2023		12,786,726	45.0053						(587	)0		)			0001, 0014
FLEX321 - SPX INDEX	, •																	-			
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078	02/04/2022	02/06/2023 .		5,495,957		3						0	(13,463	)			0001, 0014
FLEX325 - SPX INDEX	, •																	-			
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access	02/04/2022	02/06/2023 .		1,844,767		3						0		)			0001, 0014
FLEX326 - SPX INDEX	, •																	-			
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access	02/04/2022	02/06/2023 .		1,848,548					20,672			0		)			0001, 0014
PTP 1586 - SPX INDEX				Morgan Stanley &																	
Equity Index Call				Co. International																	
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653	02/18/2022	02/17/2023		10,041,974		'					7,459	0	(14,019	)			0001, 0014
MAV56 - SPX INDEX						1											1				
Equity Index Call				Goldman Sachs		1															
Option	Liability Hedge	Exhibit 5	Interest	International W22LROWP21HZNBB6K528	02/18/2022	02/17/2023 .		11,675,774		'			74,308	74,308		0		)			0001, 0014
PTP 1589 - SPX INDEX				Morgan Stanley &		1															
Equity Index Call				Co. International		1															
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653	02/18/2022	02/17/2023 .		2,870,180		'					2,575	0		)			0001, 0014
PTP 1591 - SPX INDEX				Morgan Stanley &		1															
Equity Index Call				Co. International		1															
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653	02/18/2022	02/17/2023 .		9,415,203		'			61,425		11,041	0	( 19,879	)			0001, 0014
PTP 1592 - SPX INDEX		1		Morgan Stanley &		1															
Equity Index Call				Co. International		1															
Option	Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653	02/18/2022	02/17/2023 .	····· ·	5, 136,669		'						0	( 12,559	)			0001, 0014
FLEX332 - SPX INDEX																					
Equity Index Call				X-Change Financial																	
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078	02/18/2022	02/17/2023 .	····· ·	2,678,991		'					4,685	0		)			0001, 0014
FLEX334 - SPX INDEX						1															
Equity Index Call				X-Change Financial		1															
Option	Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078	02/18/2022	02/17/2023 .	<u> </u>	2,685,253		'			32 , 123		5, 125	0	( 10 , 396	)			0001, 0014
PTP 1615 - SPX INDEX						1															
Equity Index Call						1															
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC _ G5GSEF7VJP5170UK5573	03/04/2022	03/03/2023 .	<b> </b>	3,754,500		'						0	(11,374	)			0001, 0014
FLEX337 - SPX INDEX						1															
Equity Index Call				X-Change Financial		1															
Option	Liability Hedge	Exhibit 5	Interest	Access	03/04/2022	03/03/2023 .		8,787,606		·			57,100			0	( 18,480	)			0001, 0014
							·							· · · · · · · · · · · · · · · · · · ·							

-						all Option	s, Caps, r	loors, Colla	irs, Swaps	and Forwa		s of Curre	ni Stateme	ini Dale								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												1
										Prior	Current											1
	Description									Year(s)	Year Initial											1
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment		Quality	Effectiveness
	Used for		Type(s)			Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Year's	to Carrying		of	at Inception
	Income	Schedule/	of			Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying			Increase/	Change in	zation)/	Hedged	Potential	ence	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration		Amount	(Paid)	Paid	Paid	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
FLEX340 - SPX INDEX	or replicated	Identifier	(u)		Date	Expiration	Contracts	Amount	(i aid)	i alu	i alu	meenie	Value	oouc		(Decrease)	D./A.O.V.	Acciction	nom	LAPOSUIC	Entry	(6)
Equity Index Call				X-Change Financial																		1
Option	Liability Hedge	Exhibit 5	Interest	Access	03/04/2022	03/03/2023 .		6, 168, 899									0	(15,308)				0001, 0014
MAV58 - SPX INDEX	. Enabrinty houge	Exilibit 0																(10,000)				
Equity Index Call				Wells Fargo Bank,																		1
Option	. Liability Hedge	Exhibit 5	Interest	N.A KB1H1DSPRFMYMCUFXT09 .	03/04/2022 .	03/03/2023 .											0					0001, 0014
PTP 1613 - SPX INDEX																,						1
Equity Index Call																						1
Option	. Liability Hedge	Exhibit 5	Interest	Citibank N.A E570DZWZ7FF32TWEFA76 .	03/04/2022	03/03/2023 .		3, 153, 280									0					0001, 0014
PTP 1610 - SPX INDEX	, ,			Morgan Stanley &											-							1
Equity Index Call				Co. International																		1
Option	. Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	03/04/2022 .	03/03/2023 .		9,621,729								7,985	0	(13,397)				0001, 0014
FLEX344 - SPX INDEX																						1
Equity Index Call				X-Change Financial																		1
Option	. Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	03/18/2022 .	03/20/2023 .		9,914,598									0	( 13,965)				0001, 0014
FLEX346 - SPX INDEX																						1
Equity Index Call				X-Change Financial																		I
Option	. Liability Hedge	Exhibit 5	Interest	Access 9R7GPTS07KV3UQJZQ078 .	03/18/2022 .	03/20/2023 .		5,452,683									0	(13,781)				0001, 0014
MAV61 - SPX INDEX																						1
Equity Index Call								10 000 510			110.050		05 400		05 400			(07.047)				
Option	Liability Hedge	Exhibit 5	Interest	Barclays Bank PLC G5GSEF7VJP5170UK5573	03/18/2022 .	03/20/2023 .		13,200,516								4,901	0	(27,247)				0001, 0014
PTP 1635 - SPX INDEX				Morgan Stanley &																		1
Equity Index Call		E LINIA E		Co. International	00 (40 (0000	00.000.0000		0 000 007	44,0040		47 507		40,000		40,000	700		(4.040)				0004 0044
Option	. Liability Hedge	Exhibit 5	Interest	PLC	03/18/2022 .	03/20/2023 .		2,830,297									0	(4,246)				0001, 0014
PTP 1638 - SPX INDEX				Morgan Stanley &																		1
Equity Index Call	Liebility Hedge	Evhibit E	Interest	Co. International PLC 4PQUHN3JPFGFNF3BB653 .	03/18/2022 .	03/20/2023 .							.58.366				0	(18,686)				0001, 0014
Option PTP 1642 - SPX INDEX	. Liability Hedge	Exhibit 5	Interest	PLC 4PQUHN3JPFGFNF3BB653 .	03/ 10/ 2022 .	03/20/2023 .		0,030,000									0	(10,000)				0001, 0014
Equity Index Call																						1
Option	Liability Hedge	Exhibit 5	Interest	Societe General 02RNE8IBXP4R0TD8PU41 .	03/18/2022 .	03/20/2023 .											0	(13,541)				0001, 0014
op (10)																						
04199999999, Sub	ototal - Purchased Op	otions - Other	r - Other							8,498,879	2,286,857	0	4,775,944	XXX	4,775,944	(1, 152, 969)	0	(2,628,194)	0	0	XXX	XXX
	ototal - Purchased Or									8,498,879		0			4,775,944		0	(2,628,194)	0		XXX	XXX
	al Purchased Options	-		rants						0,100,010	2,200,001	0		XXX	0	(1,102,000)	0	(2,020,101)	0	-	XXX	XXX
	al Purchased Options			land						0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	al Purchased Options		115							0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
										-	-	0	0		0	0	0	0				
	al Purchased Options									0	ş	0	0	XXX	0	0	0	0	0		XXX	XXX
	al Purchased Options									0	•	0	0	XXX	0	0	0	0	0		XXX	XXX
	al Purchased Options									8,498,879		0	.,,		4,775,944	(1,152,969)	0	(2,628,194)	0		XXX	XXX
	al Purchased Options									8,498,879		0	.,,		4,775,944	(1,152,969)	0	(2,628,194)	0		XXX	XXX
				cluding Variable Annuity Guarantees		P No.108				0	-	0	0	XXX	0	0	0	0	0		XXX	XXX
				ariable Annuity Guarantees Under SSA	P No.108					0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
0709999999. Sub	ototal - Written Optior	ns - Hedgina	Other	*						0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	ototal - Written Option									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	ototal - Written Option									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	ototal - Written Option		Generation							0		0	0	XXX	0	0	0	0	0		XXX	XXX
			and \//	to								0	-		Ű	0	0	0	0		XXX	XXX
	al Written Options - C		and warran	15						0		0		XXX	0	0	0	0				
	al Written Options - F									0	-	0		XXX	0		0	0	0		XXX	XXX
	al Written Options - 0	-								0		0		XXX	0		0	0	0		XXX	XXX
0959999999. Tota	al Written Options - F	loors								0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
0969999999. Tota	al Written Options - 0	Collars								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
0979999999. Tota	al Written Options - 0	Other								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
0989999999. Tota										0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
		ning Effective	Excluding	/ariable Annuity Guarantees Under SS	AP No 108	3				0	0	0	0	XXX	0 0	0	0	n 0	0		XXX	XXX
				nuity Guarantees Under SSAP No.10		•				0	-	0	0	XXX	0	0	0	0	0	-	XXX	XXX
1103333333. Sul	notal - Owaps - Heug			many Guarantees Under SSAF NO. 10	0					U	U	0	0	~~~	U	0	U	U	U	U	~~~	~~~

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

Showing all Options, Caps, Floors, Collars, Swaps and Forwards Open as of Current Statement Date

					Showing t		5, Oups, I		aro, omupo	anu rorwai	us open a		ni otatomo	ni Dulo								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										Cumulative												1
										Prior	Current											
	Description									Year(s)	Year Initial											1
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-						Total	Current	Adjustment			Effectiveness
	Used for		Type(s)			Date of			Rate or		discounted	- ·	Book/			Unrealized	Foreign	Year's	to Carrying			at Inception
	Income	Schedule/	of	<b>E b b b b b</b>		Maturity	Number		Index	Premium	Premium	Current	Adjusted			Valuation	Exchange	(Amorti-	Value of		Refer-	and at
<b>B</b>	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade	or	of	Notional	Received	(Received)	(Received)	Year	Carrying	<u> </u>		Increase/	Change in	zation)/	Hedged	Potential		Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value		Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure		(b)
	otal - Swaps - Hedg									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	otal - Swaps - Repli									0	0	0	0	XXX	0	0	0	0	0	-	XXX	XXX
	otal - Swaps - Incom		n							0	0	0	0	XXX	0	0	0	0	0	-	XXX	XXX
	otal - Swaps - Other									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	Swaps - Interest R									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Swaps - Credit Def									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Swaps - Foreign E									0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	I Swaps - Total Retu	ırn								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1399999999. Tota										0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1409999999. Tota										0	0	0	0	XXX	0	0	0	0	0	-	XXX	XXX
14799999999. Subt										0	0	0	0	XXX	0	0	0	0	0	-	XXX	XXX
	total - SSAP No. 108									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
				Annuity Guarantees Under SSAP No.1	08					0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
			Annuity Gua	arantees Under SSAP No.108						0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
1709999999. Subt	otal - Hedging Other	r								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1719999999. Subt	otal - Replication									0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1729999999. Subt	otal - Income Gener	ation								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1739999999. Subt	otal - Other									8,498,879	2,286,857	0	4,775,944	XXX	4,775,944	(1,152,969)	) 0	(2,628,194	) 0	0	XXX	XXX
1749999999. Subt	total - Adjustments fo	or SSAP No.	108 Derivat	ives						0	0	0	0	XXX	0	0	0	0	0	-	XXX	XXX
1759999999 - Tota	als									8,498,879	2,286,857	0	4,775,944	XXX	4,775,944	(1,152,969)	) 0	(2,628,194	) 0	0	XXX	XXX

.....

Code

Code

Liability Hedge

(b)

(a)

Financial or Economic Impact of the Hedge at the End of the Reporting Period

Description of Hedged Risk(s)

Schedule DB - Part B - Section 1 - Futures Contracts Open

Schedule DB - Part B - Section 1B - Brokers with whom cash deposits have been made  $N\ O\ N\ E$ 

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

Counterparty Exposure for Derivative Instruments Open as of Current Statement Date

			1 7		alive moliuments			ĩ				
1	2	3	Counterpa	arty Offset	Bool	Adjusted Carrying V	/alue		Fair Value	-	12	13
		Credit	4	5	6	7	8	9	10	11		
	Master	Support	Fair Value of	Present Value	Contracts With	Contracts With						
Description of Exchange,	Agreement	Annex	Acceptable	of Financing	Book/Adjusted	Book/Adjusted	Exposure Net of	Contracts With	Contracts With	Exposure	Potential	Off-Balance
Counterparty or Central Clearinghouse	(Y or N)	(Y or N)	Collateral	Premium			Collateral	Fair Value >0	Fair Value <0	Net of Collateral	Exposure	Sheet Exposure
01999999999 - Aggregate Sum of Exchange Traded Derivatives	XXX	XXX	XXX		• • • • • • • • • • • • • •	e jg i	0			0	,	0
Bank of America, N.A. B4TYDEB6GKMZ0031MB27	Ŷ	Y	0		134.473	0		134,473	0	134.473	0	0
Barclays Bank PLC	Ŷ	Ŷ	0		715,309	0	7 15, 309	715,309	0	715,309	0	0
BNP Paribas London	Y	Y	0			0			0		0	0
Citibank N.A. E570DZWZ7FF32TWEFA76	Y	Y				0	0		0	0	0	0
Goldman Sachs International	Y	Y	0			0			0		0	0
Goldman Sachs International	Y	Y	1,390,000			0	0		0	0	0	0
X-Change Financial Access	Y	Y	0		1,931,251	0	1,931,251	1,931,251	0	1,931,251	0	Q
Societe General	Y	Y				0			0	13,844	0	0
Wells Fargo Bank, N.A	Y	YY					0			0	0	0
02999999999. Total NAIC 1 Designation			4,665,546	0	4,775,944	0	2,956,419	4,775,944	0	2,956,419	0	0
							0			0		
03999999999. Total NAIC 2 Designation			0	0	0	0	0	0	0	0	0	0
							0			0		
04999999999. Total NAIC 3 Designation			0	0	0	0	0	0	0	0	0	0
							0			0		
0599999999. Total NAIC 4 Designation			0	0	0	0	0	0	0	0	0	0
							0			0		
0699999999. Total NAIC 5 Designation			0	0	0	0	0	0	0	0	0	0
							0			0		
0799999999. Total NAIC 6 Designation			0	0	0	0	0	0	0	0	0	0
08999999999. Aggregate Sum of Central Clearinghouses (Excluding	Exchange Trac	ded)					0			0		
0999999999 - Gross Totals			4,665,546	0	4,775,944	0	2,956,419	4,775,944	0	2,956,419	0	0
1. Offset per SSAP No. 64												
2. Net after right of offset per SSAP No. 64					4,775,944	0						

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

Collateral for Derivative Instruments Open as of Current Statement Date

#### Collateral Pledged by Reporting Entity

1	2	3	4	5	6	7	8	9
						Book/Adjusted Carrying		Type of Margin
Exchange, Counterparty or Central Clearinghouse		CUSIP					Maturity	Margin
or Central Clearinghouse	Type of Asset Pledged	Identification	Description	Fair Value	Par Value	Value	Date	(I, V or IV)
0199999999 - Total							XXX	XXX

#### Collateral Pledged to Reporting Entity

1	2	3	4	5	6	7	8	9
						Book/Adjusted		Type of
Exchange, Counterparty or Central Clearinghouse		CUSIP				Carrying	Maturity	Margin
or Central Clearinghouse	Type of Asset Pledged	Identification	Description	Fair Value	Par Value	Value	Date	(I, V or IV
Citibank NA	Cash.		ISDA Uncleared					
Morgan Stanley & Co International PLC	Cash		ISDA Uncleared	1,390,000		XXX		
Societe Generale	Cash		ISDA Uncleared			XXX		
Wells Fargo Bank NA	Cash		ISDA Uncleared			XXX		
0299999999 - Total				4,665,546	4,665,546	XXX	XXX	XXX

Schedule DB - Part E - Derivatives Hedging Variable Annuity Guarantees **NONE** 

Schedule DL - Part 1 - Reinvested Collateral Assets Owned **NONE** 

Schedule DL - Part 2 - Reinvested Collateral Assets Owned **NONE** 

SCH	IED	ULE	E E - PA	RT 1 - C	ASH			
		1	End Depository	1	De els Del	ance at End of Eac	le Mariado	
1	2	3	4	5		lance at End of Eac uring Current Quart		9
		Rate of	Amount of Interest Received During Current	Amount of Interest Accrued at Current	6	7	8	
Depository		Interest	Quarter	Statement Date	First Month	Second Month	Third Month	*
PNC Bank Pittsburgh, PA		0.000			(283, 163)			XXX
Morgan Stanley		0.000				5,997,487	5,997,487	XXX
Bank of New York Mellon New York, NY		0.000			3,859,160	5,214,474	3,021,202	XXX
0199998. Deposits in depositories that do not exceed the allowable limit in any one depository (See instructions) - Open Depositories	xxx	xxx						xxx
0199999. Totals - Open Depositories	XXX	XXX	0	0	9,573,484	11,990,615	6,947,462	XXX
0299998. Deposits in depositories that do not exceed the allowable limit in any one depository (See instructions) - Suspended Depositories	xxx	xxx						xxx
0299999. Totals - Suspended Depositories	XXX	XXX	0	0	0	0	0	XXX
0399999. Total Cash on Deposit	XXX	XXX	0	0	9,573,484	11,990,615	6,947,462	XXX
0499999. Cash in Company's Office	XXX		XXX					XXX
	XXX	XXX	0	0	9,573,484	11,990,615	6,947,462	XXX

# **SCHEDULE E - PART 2 - CASH EQUIVALENTS**

Show Investments Owned End of Current Quarter

1	2	3	4	5	6	7	8	9
	Description	0.1	Data Associated	Data of latenant	Maturity Data	Book/Adjusted	Amount of Interest Due and Accrued	Amount Received
CUSIP 0109999999. Total - U.S. Govern	Description	Code	Date Acquired	Rate of Interest	Maturity Date	Carrying Value	Due and Accrued	During Year
03099999999. Total - All Other G						0	0	
						0	0	0
	, Territories and Possessions Bonds					0	0	0
07099999999. Total - U.S. Politica						0	0	0
09099999999. Total - U.S. Specia						0	0	0
Agilent Technologies			03/29/2022	0.000 .	04/05/2022	4,999,617	0	
Ameren Corp Commercia			03/16/2022	0.000	04/18/2022		0	
	ver Co Inc Commercial Paper			0.000 .	05/04/2022		0	
Amphenol Corp Commeri				0.000 .			0	
Danaher Corp Commerci	al Paper		03/17/2022 03/24/2022	0.000 . 0.000 .	04/07/2022 04/27/2022		0	
	mmercial Paper							
Eversource Energy Con	mmercial Paper						0	
Fortive Corp Commerci				0.000	04/06/2022	4,999,361		
	l Inc Commercial Paper		03/14/2022	0.000	04/05/2022	4,999,500	0	2,250
	s Co Commercial Paper					.5,999,667	0	
OGE Energy Corp Comme						5.000.000		
	mercial Paper			0.000		4,997,670	0	462
VF Corp Commercial Pa				0.000	04/20/2022	4,997,624	0	
	ercial Paper			0.000	04/21/2022	4,997,221	0	
	Canada or Bell Canda/The Commercial Paper		03/22/2022	0.000 .	04/20/2022	4,997,334	0	
	way Co Commercial Paper		03/29/2022	0.000 .	04/12/2022		0	219
Suncor Energy Inc Com			03/28/2022	0.000	05/05/2022	4,995,512	0	
	Industrial and Miscellaneous (Unaffiliated) - Issuer Obligations					87,963,942	0	22, 197
	nd Miscellaneous (Unaffiliated) Bonds					87,963,942	0	22,197
13099999999. Total - Hybrid Secu	urities					0	0	0
15099999999. Total - Parent, Sub	osidiaries and Affiliates Bonds					0	0	C
19099999999. Subtotal - Unaffilia	ted Bank Loans					0	0	C
24199999999. Total - Issuer Oblic						87.963.942	0	22, 197
24299999999. Total - Residential	Mortgage-Backed Securities					0	0	
24399999999. Total - Commercia						0	0	
	-Backed and Structured Securities					0		
24599999999. Total - SVO Identif						0	0	
						U	U	U
2469999999. Total - Affiliated Ba						0	0	0
24799999999. Total - Unaffiliated	Bank Loans					0	0	0
25099999999. Total Bonds						87,963,942	0	22,197
	Fund - Exempt Money Market		03/31/2022	0.110 .				
82099999999. Subtotal - Exempt	Money Market Mutual Funds - as Identified by the SVO					2,000,000	0	0
								+
				l				
86099999999 - Total Cash Equiva	alents					89,963,942	0	22, 197