

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

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2021 OF THE CONDITION AND AFFAIRS OF THE

ANNUITY INVESTORS LIFE INSURANCE COMPANY

NA		0084 NAIC Company Co	ode <u>93661</u> Employ	er's ID Number	31-1021738
Organized under the Laws of		(Prior) hio	, State of Domicile or Port	t of Entry	ОН
Country of Domicile		United States	of America		
Licensed as business type:	<u>Li</u>	fe, Accident and Health [X] F	raternal Benefit Societies		
Incorporated/Organized	11/13/1981		Commenced Busines	is	12/21/1981
Statutory Home Office	301 East Four	th Street		Cincinnati, (DH, US 45202
	(Street and N	umber)	(Cit	ty or Town, State,	Country and Zip Code)
Main Administrative Office		301 East Fou			
	Cincinnati, OH, US 45202	(Street and	Number)	542.21	7 2200
(City o	Town, State, Country and Zip	Code)			57-3300 lephone Number)
Mail Address	Post Office Box 54	23			
- India / Noticess	(Street and Number or P		(Ci		OH, US 45201 Country and Zip Code)
Primary Location of Books an				5:	
rimary Location of Books an	a Records	301 East Fo (Street and			
	Cincinnati, OH, US 45202			513-3	57-3300
(City or	r Town, State, Country and Zip (Code)		(Area Code) (Te	lephone Number)
Internet Website Address		www.massm	utual.com	W	
Statutory Statement Contact	Debed	Markara Fada II			
Statutory Statement Contact		Mayhew Earle II (Name)			13-412-1735 () (Telephone Number)
	rearle@gaig.com		D <u>. </u>	•	12-1673
	(E-mail Address)			(FAX N	lumber)
		OFFIC	EDC		
President	Mark Francis			er	Christopher Patrick Miliano
	John Paul			У	
				<i>,</i>	Honara Ecc Outon
Adrienne S	usan Baglier	OTHE Michael Robe			Michael Henrican Henry
	k Sponaugle	IANCHIZEL LYONG	it i anning #		Michael Harrison Haney
		DIDECTOR		= =====	
Dominic Lu	ısean Blue #	DIRECTORS OF Elizabeth Wan	d Chicaras #		Susan Marie Cicco #
Geoffrey Jam	es Craddock #	Roger William	n Crandall #		Michael Robert Fanning #
	ny Lapiana # m Partlan #	Mark Francis Gareth Field	Muething	- Ri	Michael James O'Connor #
Enc vviiia	III allian #	Gareth Field	ing Ross #		Arthur William Wallace III #
State of	Ohio				
County of	Hamilton	ss:			
The officers of this reporting e	ntity baing duly ayam, saab da		Substitute (Marchael Surger St. St. Victoria (Marchael Surger)		
an of the never described as	sets were the absolute propert	v of the said reporting entity	free and clear from any li	ione or claims that	nd that on the reporting period stated above, reon, except as herein stated, and that this
Statement, together with relate	d exhibits, schedules and expla	inations therein contained and	neved or referred to ic a fi	ull and true statem	ont of all the assets and link lift d -f-t-
in accordance with the NAIC	Annual Statement Instructions:	rting period stated above, and and Accounting Practices and	of its income and deduction	ions therefrom for t	the period ended, and have been completed
rules of regulations require	ullierences in reporting not re	lated to accounting practices	and procedures accord	ting to the best a	of their information beautiful
respectively. Fulliennoise in	e scope of this attestation by th	e described officers sico incli	inoc the related correspon	ading alastrania fili	
to the enclosed statement.	ing differences due to electronic	ming) of the enclosed statem	ent. The electronic filing in	nay be requested	by various regulators in lieu of or in addition
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//// ////	100	them.	of land	A	Cot O. N
101	35/11/12/2	SHERRI L BARNES		-	Cpc Co.
Mark Francis M		Notary Publichn Paul	Gruber		Christopher Patrick Miliano
President	2	State of Ohio Secreta	ary		Treasurer
	6	My Comm. Expires	a le thie an original s	filing?	Vect V 1 Not 1
Subscribed and sworn to before	e me this	August 9, 2025	 a. Is this an original final b. If no. 	ming?	Yes [X] No []
day of	Novem	ber 2021	1. State the amend	dment number	
- Colle	0811 W 11	CHUD!	2. Date filed		0.0
XXV	WW A	NULS	3. Number of page	es attached	-

ASSETS

			Current Statement Date		4
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	December 31 Prior Year Net Admitted Assets
1.	Bonds	2,238,664,859		2,238,664,859	2,358,471,921
	Stocks:				
	2.1 Preferred stocks	6,826,853		6,826,853	6,893,247
	2.2 Common stocks	173		173	1,470,591
3.	Mortgage loans on real estate:				
	3.1 First liens			0	0
	3.2 Other than first liens			0	0
4.	Real estate:				
	4.1 Properties occupied by the company (less \$				
	encumbrances)			0	0
	4.2 Properties held for the production of income (less				
	\$ encumbrances)			0	0
	4.3 Properties held for sale (less \$				
	encumbrances)			0	0
5.	Cash (\$3,703,378), cash equivalents				
	(\$140,619,818) and short-term				
	investments (\$38,990,071)	183.313.267		183,313,267	88,750,088
6.	Contract loans (including \$ premium notes)			48,011,307	50,642,803
	Derivatives				18,712,784
8.	Other invested assets			18,433,280	18,605,384
9.	Receivables for securities	56,992		56,992	18,418
10.	Securities lending reinvested collateral assets			0	0
11.	Aggregate write-ins for invested assets			0	0
	Subtotals, cash and invested assets (Lines 1 to 11)			2,510,600,705	2,543,565,236
	Title plants less \$ charged off (for Title insurers				
	only)			0	0
14.	Investment income due and accrued	21,987,534		21,985,256	22,801,717
	Premiums and considerations:				
	15.1 Uncollected premiums and agents' balances in the course of collection			0	0
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	106,716	106,716	0	0
	15.3 Accrued retrospective premiums (\$				
	contracts subject to redetermination (\$			0	0
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers			0	0
	16.2 Funds held by or deposited with reinsured companies			0	0
	16.3 Other amounts receivable under reinsurance contracts			0	0
17.	Amounts receivable relating to uninsured plans			0	0
18.1	Current federal and foreign income tax recoverable and interest thereon	583,503		583,503	0
18.2	Net deferred tax asset	1,674,391	537,577	1, 136, 814	1,214,534
19.	Guaranty funds receivable or on deposit	4,003		4,003	5,254
20.	Electronic data processing equipment and software			0	0
21.	Furniture and equipment, including health care delivery assets				
	(\$)				0
	Net adjustment in assets and liabilities due to foreign exchange rates				0
	Receivables from parent, subsidiaries and affiliates				44,824
24.	Health care (\$) and other amounts receivable			0	0
25.	Aggregate write-ins for other than invested assets	2,408,083	24,836	2,383,247	1, 123, 135
26.	Total assets excluding Separate Accounts, Segregated Accounts and	0 507 004 005	074 407	0 500 000 500	0 500 754 700
	Protected Cell Accounts (Lines 12 to 25)	2,537,364,935	6/1,40/	2,536,693,528	2,568,754,700
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts	668,441.509		668,441,509	663,544.638
28.	Total (Lines 26 and 27)	3,205,806,444	671,407	3,205,135,037	3,232,299,338
	DETAILS OF WRITE-INS	, , ,	,	, , ,	, , ,
1101.					
1101.					
1103.					
	Summary of remaining write-ins for Line 11 from overflow page			0	0
	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0	0	0	0
	Funds held as collateral	_	0	1,310,000	
	Accrued contractual fee income		0		40,000
	Receivable for marketing reallowance	,		249,681	237,898
	Summary of remaining write-ins for Line 25 from overflow page		24,836	·	62,395
	· · · · · · · · · · · · · · · · · · ·		24,836	2,383,247	
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	2,408,083	24,836	2,383,241	1, 123, 135

LIABILITIES, SURPLUS AND OTHER FUNDS

	•	1 Current Statement Date	2 December 31 Prior Year
	Aggregate reserve for life contracts \$		
3.	Aggregate reserve for accident and health contracts (including \$ Modco Reserve) Liability for deposit-type contracts (including \$ Modco Reserve)		
	Contract claims: 4.1 Life		
5.	4.2 Accident and health		
6.	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 \$		
	6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$		
	Amount provisionally held for deferred dividend policies not included in Line 6		
9.	\$discount; including \$accident and health premiums		
	9.2 Provision for experience rating refunds, including the liability of \$ accident and health experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health Service Act		
	9.3 Other amounts payable on reinsurance, including \$		
10.	9.4 Interest Maintenance Reserve Commissions to agents due or accrued-life and annuity contracts \$	2,877,286	2,770,422
	\$ and deposit-type contract funds \$		
11. 12.	Commissions and expense allowances payable on reinsurance assumed General expenses due or accrued (GET 440)		
	Transfers to Separate Accounts due or accrued (net) (including \$		
15.1	Taxes, licenses and fees due or accrued, excluding federal income taxes. Current federal and foreign income taxes, including \$ on realized capital gains (losses)		1,254,896
16.	Net deferred tax liability Unearned investment income		
17. 18.	Amounts withheld or retained by reporting entity as agent or trustee	66,692 804,274	58,954 676,888
19.	Remittances and items not allocated	1, 131, 164	1,083,264
21.	Liability for benefits for employees and agents if not included above Borrowed money \$ and interest thereon \$		
23.	Dividends to stockholders declared and unpaid		
24.	Miscellaneous liabilities: 24.01 Asset valuation reserve 24.02 Reinsurance in unauthorized and certified (\$		_
	24.03 Funds held under reinsurance treaties with unauthorized and certified (\$	1,387,145	53.944
	24.05 Drafts outstanding 24.06 Liability for amounts held under uninsured plans		
	24.07 Funds held under coinsurance 24.08 Derivatives		
	24.09 Payable for securities	1,189,088	2,463,461
	24.10 Payable for securities lending		
	Aggregate write-ins for liabilities	2,454,277 2,174,413,116	1,014,602
27.	From Separate Accounts Statement		663,544,638
28. 29.	Total liabilities (Lines 26 and 27)		2,889,027,647
30.	Preferred capital stock		
31. 32.	Aggregate write-ins for other than special surplus funds		_
33.	Gross paid in and contributed surplus	171,550,000	171,550,000
34. 35.	Aggregate write-ins for special surplus funds	188,230,412	
	Less treasury stock, at cost: 36.1 shares common (value included in Line 29 \$		
37.	36.2 shares preferred (value included in Line 30 \$	359,780,412	340,771,691
38.	Totals of Lines 29, 30 and 37	362,280,412	343,271,691
39.	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) DETAILS OF WRITE-INS	3,205,135,037	3,232,299,338
2502.	Liability for funds held as collateral Unclaimed property	1, 144, 187	974,602
2503. 2598. 2599.	Summary of remaining write-ins for Line 25 from overflow page	0 2,454,277	0 1,014,602
3101. 3102.			
3103. 3198.	Summary of remaining write-ins for Line 31 from overflow page		0
3199.	Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)	0	0
3401. 3402.			
3403.			
3498. 3499.	Summary of remaining write-ins for Line 34 from overflow page	0	0

SUMMARY OF OPERATIONS

		1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
	Premiums and annuity considerations for life and accident and health contracts		95,469,878	121, 123,223
	Considerations for supplementary contracts with life contingencies. Net investment income		85.851.325	0 114,117,957
4.	Amortization of Interest Maintenance Reserve (IMR)	646,896	641,246	859,514
	Separate Accounts net gain from operations excluding unrealized gains or losses			_
6. 7.	Commissions and expense allowances on reinsurance ceded			0
	Miscellaneous Income:			
	8.1 Income from fees associated with investment management, administration and contract			
	guarantees from Separate Accounts	6,890,393	5,896,855	8,055,326
	8.2 Charges and fees for deposit-type contracts 3.3 Aggregate write-ins for miscellaneous income	2,475,540	2,359,163	286,725 3,188,619
9.	Totals (Lines 1 to 8.3)	166,223,832	190,439,982	247,631,364
10.	Death benefits			0
	Matured endowments (excluding guaranteed annual pure endowments)			0
12. 13.	Annuity benefits Disability benefits and benefits under accident and health contracts			17,107,755
14.	Coupons, guaranteed annual pure endowments and similar benefits			
	Surrender benefits and withdrawals for life contracts			
16.	Group conversions			
17.	Interest and adjustments on contract or deposit-type contract funds	3,622,512	4,446,4//	5,468,336
18. 19.	Increase in aggregate reserves for life and accident and health contracts	(51.695.084)	(5,977,279)	(15,726,604)
20.	Totals (Lines 10 to 19)			
	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct			
22.	business only)			9,970,611
	General insurance expenses and fraternal expenses			9.304.003
24.	Insurance taxes, licenses and fees, excluding federal income taxes	211,001	267,888	709,375
25.	Increase in loading on deferred and uncollected premiums			0
	Net transfers to or (from) Separate Accounts net of reinsurance	(60,294,405)	(43,279,893)	
27. 28.	Aggregate write-ins for deductions	140,648,995	159,508,358	208,103,892
	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus	140,040,000	100,000,000	200, 100,032
	Line 28)	25,574,837	30,931,624	39,527,472
30.	Dividends to policyholders and refunds to members			0
31.	Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	25 574 837	30,931,624	
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	4,023,256	3,716,383	6,204,327
33.	Net gain from operations after dividends to policyholders, refunds to members and federal income	24 554 524	27 245 244	
24	taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	21,551,581	27,215,241	33,323,145
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$			
	transferred to the IMR)	356,375	(4,914,430)	(4,352,034)
35.	Net income (Line 33 plus Line 34)	21,907,956	22,300,811	28,971,111
	CAPITAL AND SURPLUS ACCOUNT	242 274 224		
36.	Capital and surplus, December 31, prior year	343,271,691	349,311,929 22,300,811	349,311,929 28,971,111
37. 38.	Net income (Line 35)	(2 236 454)		
	Change in net unrealized foreign exchange capital gain (loss)			
	Change in net deferred income tax			
	Change in nonadmitted assets			
	Change in liability for reinsurance in unauthorized and certified companies			0
	Change in asset valuation reserve			
	Change in treasury stock			
	Surplus (contributed to) withdrawn from Separate Accounts during period			
	Other changes in surplus in Separate Accounts Statement			
	Change in surplus notes			
	Capital changes:			
	50.1 Paid in			
	50.2 Transferred from surplus (Stock Dividend)			
51	50.3 Transferred to surplus			
	51.1 Paid in	0	0	0
	51.2 Transferred to capital (Stock Dividend)			
	51.3 Transferred from capital			
52.	51.4 Change in surplus as a result of reinsurance			
	Aggregate write-ins for gains and losses in surplus		0	(34,000,000)
	Net change in capital and surplus for the year (Lines 37 through 53)	19,008,721	18,320,173	(6,040,238)
55.	Capital and surplus, as of statement date (Lines 36 + 54)	362,280,412	367,632,102	343,271,691
00.004	DETAILS OF WRITE-INS	4 405 004	1 104 050	4 500 554
	Contractual rider fee income			1,539,554
08.303.	Contractual annual maintenance and surrender charge fees	162,388	191,669	
08.398.	Summary of remaining write-ins for Line 8.3 from overflow page	25	654	24,738
08.399.	Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	2,475,540	2,359,163	3,188,619
	Summary of remaining write-ins for Line 27 from overflow page			
2799.	Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	0	0	0
	Summary of remaining write-ins for Line 53 from overflow page			0
	Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	0	0	0
	,			

	OAOII I LOW	1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
	Cash from Operations	75 044 540	05 400 070	404 400 004
1.	Premiums collected net of reinsurance		95,469,878	121,123,223
2.	Net investment income		, ,	126,729,658
3.	Miscellaneous income		8,205,176	11,204,984
4.	Total (Lines 1 to 3)		199, 156, 434	259,057,865
5.	Benefit and loss related payments			257,657,810
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts			
7.	Commissions, expenses paid and aggregate write-ins for deductions			19,618,30
8.	Dividends paid to policyholders	0	0	
9.	Federal and foreign income taxes paid (recovered) net of \$719,365 tax on capital			
	gains (losses)	6,581,020	3,678,775	6,471,65
10.	Total (Lines 5 through 9)	194,164,610	161,788,771	222,494,84
11.	Net cash from operations (Line 4 minus Line 10)	(19,702,859)	37,367,663	36,563,02
	Cash from Investments			
12.	Proceeds from investments sold, matured or repaid:			
	12.1 Bonds	305,230,438	391,902,958	466,606,25
	12.2 Stocks	2,008,048	1,677,302	3,337,85
	12.3 Mortgage loans	0	0	
	12.4 Real estate	0	0	
	12.5 Other invested assets	0	0	
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	0	0	30
	12.7 Miscellaneous proceeds	0	0	
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	307,238,486	393,580,260	469,944,4
13.	Cost of investments acquired (long-term only):			
	13.1 Bonds	182,483,622	326,007,059	392,474,01
	13.2 Stocks	0	2,295,429	2,295,42
	13.3 Mortgage loans	0	0	
	13.4 Real estate	0	0	
	13.5 Other invested assets	0	0	
	13.6 Miscellaneous applications	9,869,898	(1,560,058)	10,344,03
	13.7 Total investments acquired (Lines 13.1 to 13.6)	192,353,520	326,742,430	405,113,47
14.	Net increase (or decrease) in contract loans and premium notes	(2,631,496)	(2,715,746)	(3,550,31
15.	Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	117,516,462	69,553,576	68,381,25
	Cash from Financing and Miscellaneous Sources			
16.	Cash provided (applied):			
	16.1 Surplus notes, capital notes	0	0	
	16.2 Capital and paid in surplus, less treasury stock	0	0	
	16.3 Borrowed funds	0	0	
	16.4 Net deposits on deposit-type contracts and other insurance liabilities	(4,889,192)	(5,022,571)	(6,587,81
	16.5 Dividends to stockholders	0	0	34,000,00
	16.6 Other cash provided (applied)	1,638,768	1,080,783	(185,34
17.	Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	(3,250,424)	(3,941,788)	(40,773,16
40	RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS	04 500 470	100 070 454	VV 121 14
18.	Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	94,563,179	102,979,451	64 , 171 , 10
19.	Cash, cash equivalents and short-term investments:	00.750.000	04 570 00:	04 570 04
	19.1 Beginning of year		24,578,984	24,578,98
	19.2 End of period (Line 18 plus Line 19.1)	183,313,267	127,558,435	88,750,08
te S	unplemental disclosures of cash flow information for pon-cash transactions:			
0.00	01. Exchanges		15,332,093	16,008,50
20.00	upplemental disclosures of cash flow information for non-cash transactions: 01. Exchanges 02. Transfers	, , .		16,0

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

	DIRECT PREMIUMS AND DEPOSIT-TYPE C	UNIKACIS	2	3
		1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
	Industrial life			_
1.	Industrial life			0
2.	Ordinary life insurance			0
3.	Ordinary individual annuities	58,464,565	80,080,619	102,859,857
4.	Credit life (group and individual)			0
5.	Group life insurance			0
6.	Group annuities	17,176,977	15,389,259	18,263,366
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)	75,641,542	95,469,878	121,123,223
12.	Fraternal (Fraternal Benefit Societies Only)			0
13.	Subtotal (Lines 11 through 12)	75,641,542	95,469,878	121,123,223
14.	Deposit-type contracts	0	0	0
15.	Total (Lines 13 and 14)	75,641,542	95,469,878	121,123,223
	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. The Company has no prescribed or permitted practices that would result in differences between NAIC Statutory Accounting Principles ("NAIC SAP") and the state of Ohio basis, as shown below:

Net Income	Septe	ember 30, 2021	Dece	ember 31, 2020
(1) State basis	\$	21,907,956	\$	28,971,111
(2) State prescribed practices that increase/(decrease) NAIC SAP		=		-
(3) State permitted practices that increase/(decrease) NAIC SAP		=		-
(4) NAIC SAP	\$	21,907,956	\$	28,971,111
Surplus				
(5) Statutory surplus state basis	\$	362,280,412	\$	343,271,691
(6) State prescribed practices that increase/(decrease) NAIC SAP		=		-
(7) State permitted practices that increase/(decrease) NAIC SAP		-		<u> </u>
(8) NAIC SAP	\$	362,280,412	\$	343,271,691

B, C & D - No significant changes.

Note 2 - Accounting Changes and Corrections of Errors

Not applicable.

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:

		Present value	Officharge			
	Amortized Cost	of Projected	Recognized in	Amortized Cost	Fair Value at	Date
CUSIP	Before OTTI	Cash Flows	Income Statement	After OTTI	Time of OTTI	Reported
12641QBX9	126,385	125,311	1,074	125,311	123,348	9/30/2021
47232V DK5	32,098	16,443	15,655	16,443	34,282	9/30/2021
Total			\$ 16,729			

- (4) The following table shows all loan-backed securities with an unrealized loss:
 - a. The aggregate amount of unrealized losses:

 1. Less than 12 months
 \$529,434

 2. 12 months or longer
 529,412

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

 1. Less than 12 months
 \$88,953,428

 2. 12 months or longer
 34,389,646

- (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 September 30, 2021. 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.
- 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.
- 5GI Securities

Investment	Number of 5		Aggrega	te BA	CV	Aggregate Fair Value				
	Current Year	Prior Year	Curre	nt Year	Pr	ior Year	Cur	rent Year	Prior Year	
(1) Bonds - AC	-	1	\$	-	\$	54,466	\$	-	\$	54,217
(2) Bonds - FV	-	-		-		-		-		-
(3) LB&SS - AC	3	3		10		9		5		5
(4) LB&SS - FV	-	-		-		-		-		-
(5) Preferred Stock - AC	-	-		-		-		-		-
(6) Preferred Stock - FV	-	-		-	-			_		-
(7) Total (1+2+3+4+5+6)	3	4	\$	10	\$	54,475	\$	5	\$	54,222

AC - Amortized Cost

FV - Fair Value

- P. Short Sales Not applicable.
- Q. Prepayment Penalty and Acceleration Fees

	Gen	eral Account	Separ	ate Account
(1) Number of CUSIPS		26		0
(2) Aggregate amount of investment income	\$	2,634,507	\$	-

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.

During the period, the Company paid (received) federal income tax payments in cash to (from) GALIC:

 4/13/2021
 \$ 1,254,898

 4/13/2021
 \$ 1,981,000

 5/27/2021
 \$ 1,127,919

 9/17/2021
 \$ 2,217,203

The Company did not receive capital contributions from GALIC.

- D. The Company reported \$1,387,145 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.

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

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 MMLIC. MMLIC sponsors funded (qualified 401(k) thrift savings) and unfunded (nonqualified deferred compensation thrift savings) defined contribution plans for its employees, agents and retirees. The qualified 401(k) thrift savings plan's net assets available for benefits were \$3,971,012,088 as of September 30, 2021 and \$3,862,452,761 as of December 31, 2020. The Company match for the qualified 401(k) thrift savings plan is limited to 5% of eligible W-2 compensation. GALIC's total matching thrift savings contributions included in general insurance expenses were \$2,887,087 for the nine months ended September 30, 2021 and \$2,800,054 for the year ended December 31, 2020.

- 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.

Note 15 - Leases

Not applicable.

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

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.

						Net A Va	ksset lue		
	Le	vel 1	Level 2	Level 3		(NAV)		Total	
Assets at fair value									
Bonds:									
U.S. Government and government agencies	\$	-	\$ -	\$	-	\$	-	\$ -	
States, municipalities and political subdivisions		-	-		-		-	=	
Foreign government		-	-		-		-	-	
Residential mortgage-backed securities		-	1,474,070		-		-	1,474,070	
Commerical mortgage-backed securities		-	-		-		-	-	
Asset-backed securities		-	-		-		-	-	
A I other bonds		_	-		_		_	=	
Total bonds		-	1,474,070		-		-	1,474,070	
Non-affiliated preferred stock		-	2,343,100		_		_	2,343,100	
Non-affiliated common stock		173	-		_		_	173	
Equity index call options		-	15,293,974		-		-	15,293,974	
Variable annuity assets (separate accounts)		-	668,441,509		-		_	668,441,509	
Total assets accounted for at fair value/NAV	\$	173	\$ 687,552,653	\$	-	\$		\$ 687,552,826	
Liabilities at fair value									
Variable annuity liabilities (separate accounts)	\$	_	\$ 668,441,509	\$	_	\$	_	\$ 668,441,509	
Total liabilities at fair value	\$		\$ 668,441,509	\$		\$	-	\$ 668,441,509	
						_			

- (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 September 30, 2021.

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
 - a. The Company's derivative assets/liabilities are reported on a gross basis (see 20-A-(1)).
 - b. The Company has no gross or net derivative assets/liabilities measured at fair value in the Level 3 category.
- 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.

	Aggregate	Admitted						et Asset		acticable
Type of Financial Instrument	Fair Value	Assets	 Level 1	Level 2	Level 3		Value (NAV)		(Carrying Value)	
Financial Assets:										
Bonds:										
U.S. Government and					_		_		_	
government agencies	\$ 2,573,263	\$ 2,343,533	\$ -	\$ 2,573,263	\$	-	\$	-	\$	-
States, municipalities and										
political subdivisions	285,791,903	261,396,472	-	285,791,903		-		-		-
Foreign government	4,151,057	3,994,555	-	4,151,057		-		-		-
Residential mortgage-backed										
securities	155,290,956	142,218,734	-	155,163,361		127,595		-		-
Commercial mortgage-backed										
securities	53,610,382	51,174,581	-	53,610,382		-		-		-
Asset-backed securities	267,165,314	262,126,438	-	249,396,832		17,768,482		-		-
Collateralized loan obligations	169,530,935	168,709,846	-	169,530,935		-		-		-
All other bonds	1,465,525,376	1,346,700,700	 	1,456,387,685		9,137,691		-		
Total bonds	\$ 2,403,639,186	\$ 2,238,664,859	\$ -	\$ 2,376,605,418	\$	27,033,768	\$	-	\$	-
Non-affiliated preferred stock	7,710,735	6,826,853	-	4,640,735		3,070,000		-		-
Non-affiliated common stock	173	173	173	-		-		-		-
Other investments	21,438,584	18,433,280	-	21,438,584		-		-		-
Equity index call options	15,293,974	15,293,974	-	15,293,974		_		-		-
Variable annuity assets (separate										
accounts)	668,441,509	668,441,509	-	668,441,509		_		-		-
Cash, cash equivalents and										
short-term investments	183,313,267	183,313,267	183,313,267	-		_		-		-
Policy loans	48,011,307	48,011,307	-	-		48,011,307		-		-
Total financial assets/NAV	\$ 3,347,848,735	\$ 3,178,985,222	\$ 183,313,440	\$ 3,086,420,220	\$	78,115,075	\$	-	\$	-

- 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

Per SSAP No. 86, changes in unrealized gains/losses for derivatives (derivative mark-to-market) that hedge against fixed-indexed annuity ("FIA") reserves are recorded through surplus (Page 4, Line 38), while the mark-to-market for the corresponding reserves is recorded through net operating earnings (Page 4, Line 19). While options and reserves move up and down based on stock market performance, the impacts do not precisely offset each other; therefore there is volatility in surplus within each period reported.

The table below shows the impact of certain non-recurring items on net income and surplus in the reporting period, primarily due to the impact of volatility in the stock market on FIA results.

		9/30/2021	
		Other Changes	Total Surplus
	Net Income	in Surplus	I mpact
Recurring items	\$ 17,818,970	\$ (86,325)	\$ 17,732,645
Net realized capital gains (losses)	356,375	=	356,375
Change in net deferred income tax	248,512	(248,512)	-
Change in asset valuation reserve	-	(618,243)	(618,243)
FIA mark-to-market	3,484,099	(1,946,155)	1,537,944
As reported	\$21,907,956	\$ (2,899,235)	\$19,008,721
		9/30/2020	
		Other Changes	Total Surplus
	Net Income	in Surplus	Impact
Recurring items	\$ 22,397,152	\$ (682,672)	\$ 21,714,480
Net realized capital gains (losses)	(4,914,430)	-	(4,914,430)
Change in net deferred income tax	(258,331)	258,331	-
Change in asset valuation reserve	-	1,062,038	1,062,038
FIA mark-to-market	F 07C 400	(4,618,335)	458,085
	5,076,420	(4,010,333)	430,003

The following table shows the detail of Page 4, Line 38, "Change in net unrealized capital gains (losses)":

	Septe	ember 30, 2021	Septe	ember 30, 2020
Unaffiliated preferred stock	\$	(178)	\$	
Unaffiliated common stock		(338,338)		(942,037)
Other invested assets		(28,949)		(21,596)
Deferred taxes		77,168		202,363
Subtotal		(290,297)		(761,270)
Derivatives - hedging FIA		(1,946,157)		(4,618,335)
Total	\$	(2,236,454)	\$	(5,379,605)

Note 22 - Events Subsequent/Other Items of Note

On May 28, 2021, American Financial Group announced the closing of the sale of the Company's parent (GALIC) to MMLIC. The sale included the Company and the parent's other insurance subsidiary.

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 Domicile, as required by the Model Act?						Yes [] N	lo [X]
1.2	If yes, has the report been filed with the domiciliary state?] N	lo []
2.1	Has any change been made during the year of this statement in the c reporting entity?	harter, by-laws, articles of incorpo	ration, or deed o	of settlemer	nt of the		Yes [] N	lo [X]
2.2	If yes, date of change:								
3.1	Is the reporting entity a member of an Insurance Holding Company Sy is an insurer? If yes, complete Schedule Y, Parts 1 and 1A.						Yes []	X]N	lo []
3.2	Have there been any substantial changes in the organizational chart s	since the prior quarter end?					Yes [] N	lo [X]
3.3	If the response to 3.2 is yes, provide a brief description of those change	ges.							
3.4	Is the reporting entity publicly traded or a member of a publicly traded	group?					Yes [] N	lo [X]
3.5	If the response to 3.4 is yes, provide the CIK (Central Index Key) code	e issued by the SEC for the entity	group						
4.1	Has the reporting entity been a party to a merger or consolidation during liftyes, complete and file the merger history data file with the NAIC.	ng the period covered by this sta	ement?				Yes [] N	lo [X]
4.2	If yes, provide the name of the entity, NAIC Company Code, and state ceased to exist as a result of the merger or consolidation.	e of domicile (use two letter state	abbreviation) for	any entity	that has				
	1 Name of Entity	2 NAIC Company	Code State of	3 of Domicile					
5.	If the reporting entity is subject to a management agreement, includin in-fact, or similar agreement, have there been any significant changes If yes, attach an explanation.	g third-party administrator(s), ma s regarding the terms of the agree	naging general a ment or principa	igent(s), att ils involved	orney- ?	Yes [] 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	2/31/20	016
6.2	State the as of date that the latest financial examination report became date should be the date of the examined balance sheet and not the d						12	2/31/20	016
6.3	State as of what date the latest financial examination report became a the reporting entity. This is the release date or completion date of the date).	examination report and not the d	ate of the examir	nation (bala	ance shee	et	01	1/11/20	018
6.4	By what department or departments?								
6.5	State of Ohio Department of Insurance Have all financial statement adjustments within the latest financial exatement filed with Departments?					Yes [] No	[]	N/A [X
6.6	Have all of the recommendations within the latest financial examination	on report been complied with?			١	Yes [] No	[]	N/A [X
7.1	Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	registrations (including corporate	registration, if ap	oplicable) s	uspende	d or	Yes [] N	lo [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 [] N	lo [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 to	irms?					Yes [X]N	lo []
8.4	If response to 8.3 is yes, please provide below the names and locatio regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commiss	Office of the Comptroller of the	Ćurrency (OCC),	the Federa	al Deposi				
	1	2	4-)	3	4	5	6	1	
	Affiliate Name Barings LLC Great American Advisors				OCC NO	FDIC NO	SEC YES.	_	
		Cincinnati OH		NO	NO	NΩ	VEQ		

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

GENERAL INTERROGATORIES

5.1	(a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between per relationships;		١	'es [)	(]	No []
	(b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the report	ting entity;					
	(c) Compliance with applicable governmental laws, rules and regulations;						
	(d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and						
9.11	(e) Accountability for adherence to the code. If the response to 9.1 is No, please explain:						
9.11	il the response to 9.1 is No, please explain.						
9.2	Has the code of ethics for senior managers been amended?		\	/es [)	(] (No []
9.21	If the response to 9.2 is Yes, provide information related to amendment(s).						
	As a result of the Company becoming an indirect wholly-owned subsidiary of Massachusetts Mutual Life Insurance officers became subject to its code of ethics.	Company, the senior					
9.3	Have any provisions of the code of ethics been waived for any of the specified officers?		\	/es [1 !	No F X	1
9.31	If the response to 9.3 is Yes, provide the nature of any waiver(s).			00 [, .	ito [x	,
	FINANCIAL						
10.1	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement	?	٠ ١	/es [] [No [X]
10.2	If yes, indicate any amounts receivable from parent included in the Page 2 amount:		\$				
	INVESTMENT						
11 1	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or ot	herwise made available f	or				
	use by another person? (Exclude securities under securities lending agreements.) If yes, give full and complete information relating thereto:			'es [] [No [X]
12.	Amount of real estate and mortgages held in other invested assets in Schedule BA:		\$				
13.	Amount of real estate and mortgages held in short-term investments:						
14.1	Does the reporting entity have any investments in parent, subsidiaries and affiliates?						
14.2	If yes, please complete the following:	4				0	
		1 Prior Year-End		Cı		2 t Quarte	er
		Book/Adjusted				Adjusted	
4 21	Bonds	Carrying Value	- 4			ng Value	
	Preferred Stock						
	Common Stock						
	Short-Term Investments		\$				
	Mortgage Loans on Real Estate		\$	j			0
4.26	All Other	.\$0	\$				
4.27	Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26)	.\$0	\$	j			0
	Total Investment in Parent included in Lines 14.21 to 14.26 above						
15.1	Has the reporting entity entered into any hedging transactions reported on Schedule DB?		\	/es [)	(]	No []
15.2	If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? If no, attach a description with this statement.	Υε	es [X	J No	[]	N/A []
16.	For the reporting entity's security lending program, state the amount of the following as of the current statement da						
	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, F						
	16.3 Total payable for securities lending reported on the liability page.		\$				0

GENERAL INTERROGATORIES

	1	requirements of the NAIC Finance			2			
Bank of New York N	Name of Cust	todian(s)	1 Wall Stree	t. New York,	NY 10286	ess		
		vith the requirements of the NAIC						
ocation and a comp			Fillaticial Colli	ullion Examini		ovide the name,		
1 Nam		2 Location(s)			3 Complete Explar	nation(s)		
	y changes, including nation relating there	g name changes, in the custodiareto:	n(s) identified in	17.1 during t	he current quarte	r?	Yes	[] No [
Old Cu		2 New Custodian	Date	3 of Change		4 Reason		
nake investment de	cisions on behalf of	nvestment advisors, investment n f the reporting entity. For assets t tment accounts"; "handle secu	that are manage urities"]	ed internally by				
	Name of Firm	1 n or Individual	2 Affilia					
17.5097 For those f	rms/individuals liste	ed in the table for Question 17.5, a more than 10% of the reporting	do any firms/ind	lividuals unafl			Yes	[] No
17.5098 For firms/ir	dividuals unaffiliate	d with the reporting entity (i.e. de	signated with a	"U") listed in	the table for Que	stion 17.5, does the	Voc	ſ 1 No
	_	nt aggregate to more than 50% of	tine reporting e	ntity's investe	ed assets?		168	[] No
				6:1:-41\	! (= ff : : = t = = \			
able below.	aividuals listed in th	ne table for 17.5 with an affiliation	n code of "A" (af	filiated) or "U"	' (unaffiliated), pro	ovide the information t	or the	
able below. 1 Central Registratio	n	2	n code of "A" (af	,	3	4		5 Investmen Manageme Agreemen
able below. 1 Central Registratio Depository Numbe	n r			Legal Entity	3 / Identifier (LEI)		th	Investmen Manageme
able below. 1 Central Registratio Depository Number 106006	n r Barings LLC	2 Name of Firm or Individual		Legal Entity R6ZXK501NPHX	3 / Identifier (LEI)	Registered Wi	th	Investmen Manageme Agreemen (IMA) Filed DS
able below. 1 Central Registratio Depository Number 106006	n r Barings LLC quirements of the P	2 Name of Firm or Individual		Legal Entity R6ZXK501NPHX	3 / Identifier (LEI)	Registered Wi	th	Investmen Manageme Agreemen (IMA) Filed DS
Central Registratio Depository Numbe 106006	n r Bar ings LLC	2 Name of Firm or Individual	I of the NAIC Involved in the	Legal Entity R6ZXK501NPHX vestment Ana s for each selfexist or an NA	3 y Identifier (LEI) (SY1807	Registered Wi SECfollowed?	th Yes	Investmen Manageme Agreemen (IMA) Filed DS
Able below. 1 Central Registratio Depository Number 106006 Depository	quirements of the P Bar ings LLC quirements of the P Gol securities, the r on necessary to per it available. gor is current on all as an actual expect tity self-designated PLGI securities, the vas purchased prior entity is holding cap signation was derive rivate letter rating h entity is not permitte	Name of Firm or Individual urposes and Procedures Manual eporting entity is certifying the foll mit a full credit analysis of the se contracted interest and principal tation of ultimate payment of all co 5GI securities? reporting entity is certifying the foll to January 1, 2018. bital commensurate with the NAIC and from the credit rating assigned eld by the insurer and available foll ed to share this credit rating of the	lowing elements curity does not payments. contracted interest of the payment of t	Legal Entity R6ZXK501NPHX //estment Ana s for each self exist or an NA est and princip ints of each se eported for the RP in its legal by state insur- ith the SVO.	If-designated PLG e security. capacity as a NR ance regulators.	Registered Wi SEC	th Yes	Investmen Manageme Agreemen (IMA) Filed DS
able below. 1 Central Registratio Depository Number 106006	guirements of the P Bar ings LLC quirements of the P GGI securities, the report available, gor is current on all as an actual expect tity self-designated PLGI securities, the report as purchased prior entity is holding capsignation was derive rivate letter rating hentity is not permitte tity self-designated a Schedule BA non-ere purchased prior entity is holding caps as a schedule BA non-ere purchased prior entity is holding caps.	Name of Firm or Individual urposes and Procedures Manual eporting entity is certifying the foll mit a full credit analysis of the se contracted interest and principal ration of ultimate payment of all counties of the securities? reporting entity is certifying the following entity is certifying entity is certifying the following entity is certifying the followin	lowing elements curity does not payments. contracted interest of the NAIC CF for examination the PL security when the PL security when the PL security is ce	Legal Entity R6ZXK501NPHX vestment Ana s for each sell exist or an NA est and princip ents of each se eported for the RP in its legal by state insur- ith the SVO. rtifying the foll eported for the	Identifier (LEI) (SY1S07	Registered Wi SEC	th Yes	Investmen Manageme Agreemen (IMA) Filed DS
able below. 1 Central Registratio Depository Number 106006 Have all the filing ref no, list exceptions By self-designating a. Documentatic security is not b. Issuer or oblic. The insurer has the reporting e. The security with the security with the reporting c. The NAIC Deson a current profit on a current profit on a current profit on the security has the reporting error the security has the reporting c. The shares with the security has the reporting c. The security has the current recording the security has the current recording the security of the current recording the security of the security has the security of the current recording the security of the securit	quirements of the P Gol securities, the report available. gor actual expect thity self-designated perior entity is holding capsignation was deriverivate letter rating hentity self-designated a Schedule BA non-ere purchased prior entity is holding capad a public credit ratio. The purchased prior entity is not permitted the perior that the perior entity is not permitted as the purchased prior entity is holding capad a public credit ratio. The purchased prior entity is holding capad a public credit ratio.	Name of Firm or Individual urposes and Procedures Manual eporting entity is certifying the foll mit a full credit analysis of the se contracted interest and principal ration of ultimate payment of all co 5GI securities? reporting entity is certifying the foll to January 1, 2018. Poital commensurate with the NAIC and from the credit rating assigned eld by the insurer and available for ed to share this credit rating of the PLGI securities?	llowing elements curity does not payments. contracted interest by an NAIC of the payment of the	Legal Entity R6ZXK501NPHX //estment Ana s for each selfexist or an NA est and princip attention of each selfexist or an Interpretation of each selfexist or an Interpretation of the selfexist of each selfexist or an Interpretation of the selfexist of each selfexist or an Interpretation of the selfexist of the self-selfexist of the self-selfexist of the self-selfexist of the self-selfexist of the self-self-self-self-self-self-self-self-	3 Videntifier (LEI) (SY1S07	Registered Wi SEC followed? security: ting for an FE or PL SI security: SRO which is shown of each self-designate as an NRSRO prior to	th Yes	Investmen Manageme Agreemen (IMA) Filed DS

GENERAL INTERROGATORIES

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

Life and	Accident Health Companies/Fraternal Benefit Societies: Report the statement value of mortgage loans at the end of this reporting period for the following categories:	1 Amount	
	1.1 Long-Term Mortgages In Good Standing	Amount	
	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	\$	
	1.42 Residential Mortgages	\$	
	1.43 Commercial Mortgages	\$	
	1.44 Total Mortgages in Process of Foreclosure	\$	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	\$	
	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?		
3.2	If yes, please provide the amount of custodial funds held as of the reporting date	\$	
3.3	Do you act as an administrator for health savings accounts?	Yes [] No [X]	
3.4	If yes, please provide the balance of the funds administered as of the reporting date	\$	
4.	Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states?	Yes [X] No []	
4.1	If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity?	Yes [] No []	
Fratern 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?]
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

		Showing All New Reinsura	ince Treaties	- Current Yea	ar to Date			
1	2	3 4	5	6	7	8	9 Certified	10 Effective Date of
NAIC Company	ID Normalia a sa	Effective Name of Brigary	Domiciliary	Type of Reinsurance	Type of Business	Top of Delegance	Reinsurer Rating	Certified Reinsurer
Code	Number	Date Name of Reinsurer	Jurisdiction	Ceded	Ceded	Type of Reinsurer	(1 through 6)	Rating
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SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS Current Year To Date - Allocated by States and Territories

		Tarront rour	To Bato 7 moot	ated by States a		iness Only		
		1	Life Co	ntracts	4	5	6	7
			2	3	Accident and			
					Health Insurance			
		Active			Premiums,		Total	
		Status	Life Insurance	Annuity	Including Policy, Membership	Other	Columns	Deposit-Type
	States, Etc.	(a)	Premiums	Considerations	and Other Fees	Considerations	2 Through 5	Contracts
1.	AlabamaAL	<u>L</u>		293,570			293,570	
	Alaska AK			12,725			12,725	
	Arizona	<u>Ļ</u>		586,610			586,610	
	Arkansas	L		94,649			94,649	
	California	<u>Ļ</u>		10,665,049			10,665,049	
	Colorado	<u>Ļ</u>		150,854			150,854	
1	Connecticut	L		1,245,737			1,245,737	
8. 9.	Delaware DE District of Columbia	<u>Ļ</u>		149,405			149,405 15,942	
	Florida FL	<u>Ļ</u>						
	Georgia	L		8,367,124			8,367,124 394,365	
	Hawaii HI	L		394,365 849,577				
13.	Idaho ID	L		l'			849,577 236,186	
	Illinois IL			236, 186 1, 818, 085			1,818,085	
	IndianaIN			· · · · · · · · · · · · · · · · · · ·			l ''	
16.	lowa IA	L		347,372			347,372	
	Kansas KS	L		119,442			119,442	
	Kentucky KY	L		655,555				
	Louisiana LA			100,000			193,699	
	Maine ME	LL		193,699			685,675	
	Maryland MD	L		208,305			208,305	
	Massachusetts MA	ı		2,274,563			2,274,563	
1	Michigan MI	ı	•	2,551,022	•		2,551,022	
	Minnesota MN	i		1,006,852	[1,006,852	
	Mississippi MS	L		125,528			125,528	
	Missouri MO	L		315,384			315,384	
	Montana MT	L		245,491			245,491	
	Nebraska NE			64,627			64,627	
29.	Nevada NV	L		1, 179, 820			1, 179, 820	
	New HampshireNH	L		180, 131			180,131	
31.	New JerseyNJ	L		2,089,484			2,089,484	
32.	New Mexico NM	L		204,440			204,440	
33.	New York NY	NN.		161,471			161,471	
	North CarolinaNC	L		15,813,206			15,813,206	
35.	North DakotaND	L		102,888			102,888	
36.	Ohio OH	L		5,283,140			5,283,140	
	Oklahoma OK	L		168,251			168,251	
	Oregon OR	L		153,588			153,588	
	PennsylvaniaPA	L		1,368,223			1,368,223	
	Rhode IslandRI	L		749,228			749,228	
	South CarolinaSC	L		358,932			358,932	
	South Dakota	L		32,725			32,725	
	Tennessee TN	L		2,233,943			2,233,943	
	TexasTX	L		8,237,287			8,237,287	
	Utah UT	L		996,585			996,585	
	VermontVT	N		27,863			27,863	
	VirginiaVA	L		693,052			693,052	
	Washington WA	L		1,406,431			1,406,431	
	West Virginia WV	L		44 , 123			44, 123	
1	Wisconsin WI	L		81,029			81,029	
	WyomingWY	<u>L</u>		21,959			21,959	
	American Samoa AS	N					0	
	Guam GU	N					0	•
	Puerto Rico PR	N		450			0	
	U.S. Virgin Islands	N		450			450	
1	Northern Mariana IslandsMP	N					0	
	Canada	N		1 000			0	
	Aggregate Other Aliens OT	XXX	0	1,800	0	0	1,800	0
	Subtotal	XXX	0	75,641,542	0	0	75,641,542	0
90.	plans	XXX					n	
91.	Dividends or refunds applied to purchase paid-up							
	additions and annuities	XXX					0	
92.	Dividends or refunds applied to shorten endowmen						_	
03	or premium paying period.	XXX					0	
93.	Premium or annuity considerations waived under disability or other contract provisions	XXX					n	
94.	Aggregate or other amounts not allocable by State.		0	0	0	0	n	n
	Totals (Direct Business)	XXX	0	75,641,542		0	75,641,542	0
	Plus Reinsurance Assumed	XXX					0	
	Totals (All Business)	XXX	0	75,641,542	0	0	75,641,542	0
	Less Reinsurance Ceded	XXX		, , ,			0	
99.	Totals (All Business) less Reinsurance Ceded	XXX	0	75,641,542	0	0	75,641,542	0
	DETAILS OF WRITE-INS							
58001.	Other Alien	XXX		1,800			1,800	
58002.		XXX						
58003.		XXX	ļ	ļ	ļ		ļ	
58998.	Summary of remaining write-ins for Line 58 from]				
	overflow page	XXX	0	0	0	0	0	0
58999.	Totals (Lines 58001 through 58003 plus	XXX	0	1.800	0	0	1.800	0
9401.	58998)(Line 58 above)			1,000	"	U	1,000	U
9401. 9402.		XXX						
9402. 9403.		XXX						
I	Summary of remaining write-ins for Line 94 from	XXX						
J430.	overflow page	XXX	0	0	0	0	0	0
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line							
L	94 above)	XXX	0	0	0	0	0	0
(a) Active	Status Counts:							

PART 1 – ORGANIZATIONAL CHART

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

	Federal Tax ID	NAIC Co Code	State of Domicile
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML 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
New Haven Holdco LLC	04-1590850		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Private Equity Funds LLC	04-1590850		Delaware
MassMutual Private Equity Funds Subsidiary 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	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
JFIN Fund III LLC	None		Delaware
Jefferies Credit Partners LLC	None		Delaware
APEX Credit Partners LLC	None		Delaware
JFAM GP LLC	None		Delaware

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

	Federal Tax ID	NAIC Co Code	State of Domicile
JFAM GP LP	None		Delaware
Jefferies Direct Lending Fund C LP	None		Delaware
Jefferies DLF C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund C SPE LLC	None		Delaware
JFIN Revolver Holdings LLC	None		Delaware
JFIN Revolver Holdings II LLC	None		Delaware
JFIN Co-Issuer Corporation	None		Delaware
JFIN Europe GP, S.a.r.1.	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 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 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
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		Cayman Islands
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
JFIN CLO 2017 II Ltd.	None		Cayman Islands
Glidepath Holdings Inc.	86-2294635	(2212	Delaware
Great American Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717	02661	Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
Great American Advisors, LLC	31-1395344		Ohio

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Manhattan National Holding Corporation Manhattan National Life Insurance Company	26-3260520 45-0252531	67083	Ohio Ohio
MassMutual Mortgage Lending LLC	None		Delaware
MM Copper Hill Road LLC	04-1590850		Delaware
MM Direct Private Investments Holding LLC	None		Delaware
MM Direct Private Investments UK Limited	None		United Kingdom
MM Investment Holding	None		Cayman Islands
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2013-A	90-1005837		Delaware
MMAF Equipment Finance LLC 2014-A	36-4785301		Delaware
MMAF Equipment Finance LLC 2015-A	38-3969560		Delaware
MMAF Equipment Finance LLC 2016-A	32-0489588		Delaware
MMAF Equipment Finance LLC 2017-A	35-2590691		Delaware
MMAF Equipment Finance LLC 2017-B	32-0546197		Delaware
MMAF Equipment Finance LLC 2018-A	82-5335801		Delaware
MMAF Equipment Finance LLC 2019-A	83-3722640		Delaware
MMAF Equipment Finance LLC 2019-B	None		Delaware
MMAF Equipment Finance LLC 2021-A	None		Delaware
Rozier LLC	None		Delaware
MML Management Corporation	04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
MML CM LLC	None		Delaware
Blueprint Income LLC	None		New York
Flourish Digital Assets LLC	None		Delaware
Flourish Financial LLC	None		Delaware
Flourish Technologies LLC	None		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		Connecticut
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental LLC	04-1590850		Delaware
Pioneers Gate LLC	45-2738137		Delaware
MassMutual Holding LLC	04-2854319		Delaware
Fern Street LLC	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
Andorration Cuprim Lancieto DDC	0.1570050		201411410

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

	Federal Tax ID	NAIC Co Code	State of Domicile
MassMutual 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
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	41-2011634		Delaware
LifeScore Labs, LLC	47-1466022		Massachusetts
MM Asset Management Holding LLC	45-4000072		Delaware
Barings LLC	51-0504477		Delaware
Baring Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None		Korea
Barings Investment Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Barings Singapore Pte. Ltd.	None		Singapore

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings 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 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 Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Finland Oy	None		Finland
Barings Netherlands B.V.	None		Netherlands
Barings Real Estate UK Holdings Limited	None		Delaware
Barings Real Estate Advisers (Continental Europe) Limited	98-0654401		United Kingdom
Barings Real Estate Advisers Europe LLP	98-0654388		United Kingdom
Barings Real Estate GmbH	98-1194368		Germany
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 Asset Management GmbH	98-0465031		Germany
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland
Baring Asset Management Switzerland Sårl	None		Switzerland
Baring France SAS	98-0497550		France
Baring Fund Managers Limited	98-0457586		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
Barings Core Fund Feeder I GP S.à.r.l.	None		Luxembourg
Barings Investment Fund (LUX) GP S.à r.l.	None		Luxembourg
Barings BME GP S.à.r.l.	None		United Kingdom
Barings GPC GP S.à.r.l.	None		Luxembourg
Barings European Core Property Fund GP Sà.r.1	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à r.1	None		Luxembourg
PREIF Holdings Limited Partnership	None		United Kingdom

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Almack Holding Partnership GP Limited	None		United Kingdom
Almack Mezzanine Fund Limited	None		United Kingdom
Barings (U.K.) Limited	98-0432153		United Kingdom
BMC Holdings DE LLC	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		California
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
Milestone Acquisition Holding, LLC.	47-3055009		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
Validus Pharmaceuticals LLC	None		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 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
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 Small Business Fund LLC	84-5063008		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands

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

	Federal Tax ID	NAIC Co Code	State of Domicile
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
CEMF I 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	27-3576835		Delaware
Other Affiliates & Funds:			
100 w. 3 rd 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
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 Ireland
Barings Emerging Markets Corporate Bond Fund	None None		
Barings European Real Estate Debt Income Fund			Luxembourg
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware

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PART 1 – ORGANIZATIONAL CHART

Federal Tax ID NAIC Co Code State of Domicile

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-I	None	Cayman Islands
Babson CLO Ltd. 2014-I	None	Cayman Islands
Babson CLO Ltd. 2015-I	None	Cayman Islands
Babson CLO Ltd. 2015-II	None	Cayman Islands
Babson CLO Ltd. 2016-I	None	Cayman Islands
Babson CLO Ltd. 2016-II	None	Cayman Islands
Barings CLO Ltd. 2017-I	None	Cayman Islands
Barings CLO 2018-III	None	Cayman Islands
Barings CLO 2018-IV	None	Cayman Islands
Barings CLO 2019-II	98-1473665	Cayman Islands
Barings CLO 2019-III	None	Cayman Islands
Barings CLO 2019-IV	None	Cayman Islands
Barings CLO 2020-I	None	Cayman Islands
Barings CLO 2020-II	None	Cayman Islands
Barings CLO 2020-III	None	Cayman Islands
Barings CLO 2020-IV	None	Cayman Islands
Barings CLO 2021-I	ZJX0JI.99999.SL.136	Cayman Islands
Barings CLO 2021-II	EPXAC4.99999.SL.136 (GIIN)	Cayman Islands
Babson Euro CLO 2014-I BV	None	Netherlands
Babson Euro CLO 2014-II BV	None	Netherlands
Babson Euro CLO 2015-I BV	None	Netherlands
Babson Euro CLO 2016-I BV	None	Netherlands
Barings Euro CLO 2019-1	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 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 Private Loan Fund	None	Luxembourg
Barings Global Real Assets Fund LP	82-3867745	Delaware
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 Hotel Opportunity Venture	87-0977058	Connecticut
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
		·

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings 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 CLO Investment Partners LP	81-0841854		Delaware
Barings Euro Value Add II (BREEVA II)*	K15Q2K.99999.SL.	.442	Luxembourg
Barings Real Estate European Value Add I SCSp*	None		United Kingdom
Barings Real Estate Debt Income Fund LP*	85-3449260		Delaware
Braemar Energy Ventures I, L.P. *	None		Delaware
Barings European Core Property Fund SCSp	None		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 VIII LP	27-0547156		Delaware
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
Cornerstone Permanent Mortgage Fund III LLC	35-2531693		Massachusetts
Cornerstone Permanent Mortgage Fund IV LLC	61-1793735		Massachusetts
Eclipse Business Capital Holdings	EIN 87-1321958		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
GIA EU Holdings - Emerson JV Sarl	EIN 98-1607033		Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-404	11012	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
MM BIG Peninsula Co-Invest Member LLC	04-1590850		Massachusetts
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	82-4411267		Delaware
Reston Arboretum LLC	75-2901061		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

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

	Federal Tax ID NAIC Co Cod	e State of Domicile
Tower Square Capital Partners IIIA, L.P.	41-2280129	Delaware
Trailside MM Member LLC*	04-1590850	Delaware
Washington Gateway Two LLC*	83-1325764	Delaware
Washington Gateway Three LLC*	32-0574045	Delaware
West 46th 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	HU7DQI.00015.SF.826	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 Hotel Opportunity Venture	87-0977058	Delaware
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None	Luxembourg
Calgary Railway Holding LLC*	82-2285211	Delaware
Combrook PRS Holdings LLC	82-3307907	Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717	California
Cornerstone California Mortgage Fund II LLC	95-4207717	California
Cornerstone California Mortgage Fund III LLC	95-4207717	California
Cornerstone Fort Pierce Development LLC*	56-2630592	Delaware
Cornerstone Permanent Mortgage Fund	45-2632610	Massachusetts
Cornerstone Permanent Mortgage Fund II	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund III	35-2531693	Massachusetts
Cornerstone Permanent Mortgage Fund IV	61-1793735	Massachusetts
CREA/PPC Venture LLC	20-0348173	Delaware
CREA Madison Member LLC	81-0890084	Delaware
Danville Riverwalk Venture, LLC	82-2783393	Delaware
Fan Pier Development LLC*	20-3347091	Delaware
GIA EU Holdings LLC	04-1590850	Delaware
Landmark Manchester Holdings LLC	81-5360103	Delaware
MM Island Member LLC	04-1590850	Delaware
NoHo West Venture LLC	83-0881588	Delaware
One Harbor Shore LLC*	80-0948028	Delaware
PACO France Logistics LLC	04-1590850	Delaware
Portland 400 Sixth Manager LLC	82-3393166	Delaware
Raleigh Crossing Phase I Holdings LLC	None	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware

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	Federal Tax ID	NAIC Co Code	State of Domicile
Commence William Channing Control LLC*	27-2977720		Delawara
Sawgrass Village Shopping Center LLC* STOA Holding LLC	None		Delaware 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:	43 3401107		Dolaware
MassMutual Premier Focused International Fund	02-0754273		Massachusetts
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Select Funds:	20 322,201		TAMBORO II GOLD
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:			
MML Series International Equity Fund	46-4257056		Massachusetts
MML Series Investment Funds II:			
MML Series II Asset Momentum Fund	47-3517233		Massachusetts
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
MML Series II Special Situations Fund	47-3559064		Massachusetts
MassMutual RetireSMART Funds:	27 1022200		1
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

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PART 1 – ORGANIZATIONAL CHART

Federal Tax ID NAIC Co Code State of Domicile

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

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

SCHEDULE Y

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0000							JFIN Parent LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
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0000			27-0105644				Jefferies Finance LLC	DE	NI A	Company	Owner ship	50.000	MMLIC		1
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0000			86-2294635				Glidepath Holdings Inc.	DE	UIP	Company	Ownership.	100.000	MMLIC		
0000	Massachusetts Mut Life Ins Co	63312	13-1935920				Great American Life Insurance Company	OH	UDP	Glidepath Holdings Inc.	Ownership	100,000	MMLIC		1
0000			31-1422717				AAG Insurance Agency, LLC	KY	NIA	Great American Life Insurance Company	Ownership	100.000	MMLIC		
0000	Massachusetts Mut Life Ins Co	93661	31-1021738				Annuity Investors Life Insurance Company	OH	RE.	Great American Life Insurance Company	Ownership.	100.000	MMLIC		
0000	massaonasetts mut LITE IIIS OU	1 000 5	31-1395344				Great American Advisors, LLC	OH	NIA	Great American Life Insurance Company	Owner ship.	100.000	MMLIC		1
			31-1395344 26-3260520					OH				100.000	MMLIC		
0000		07000					Manhattan National Holding Corporation		NIA	Great American Life Insurance Company	. Ownership				
0000	Massachusetts Mut Life Ins Co	67083	45-0252531				Manhattan National Life Inusrance Company	OH	IA	Manhattan National Holding LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MassMutual Mortgage Lending LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000							JFIN GP Adviser LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Fund III LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							Jefferies Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							Apex Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFAM GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership.	100.000	MMLIC		1
0000							JFAM GP LP	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
								DE				100.000	MMLIC		
0000							Jefferies Direct Lending Fund C LP		NIA	Jefferies Credit Partners LLC	. Ownership				
0000							Jefferies DLF C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund C LLC	Ownership	100.000	MMLIC		
0000							Jefferies Direct Lending Fund C SPE LLC	DE	NI A	Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC		
0000							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	100.000	MMLIC		
0000							JFIN Co-Issuer Corporation	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN Europe GP, S.a.r.I.	LUX	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							Jefferies Finance Europe, S.L.P.	LUX	NIA	JFIN Europe GP. S.a.r.I.	Ownership	100,000	MMLIC		
0000							Jefferies Finance Europe, SCSp	LUX	NIA	JFIN Europe GP. S.a.r.I.	Ownership.	100.000	MMLIC		1
0000							Jefferies Finance Business Credit LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Business Credit Fund I LLC	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN High Yield Investments LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN LC Fund LLC	DE	NIA	Jefferies Finance LLC		100.000	MMLIC		
											Ownership				
0000							JFIN Revolver CLO 2017 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							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		
0000							JFIN Revolver CLO 2018 Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver CLO 2019 Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver CLO 2019-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver CLO 2020 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							JFIN Revolver CLO 2021-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver CLO 2021-III Ltd.	DE	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC		
0000							JFIN Revolver Fund, L.P.	DE	NIA	Jefferies Finance LLC	Ownership.	90.000	MMLIC		1
0000							JFIN Revolver Funding 2021 Ltd.	DE	NIA	Jefferies Finance LLC			MMLIC		1
											Ownership				
.0000							JFIN Revolver Funding 2021 III Ltd.	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							JFIN Revolver Funding 2021 IV Ltd.	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							JFIN Revolver Funding 2021 IV Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							Apex Credit Holdings LLC	DE	NI A	JFIN Parent LLC	. Ownership	100.000	MMLIC		
.0000							JFIN CLO 2012 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
0000				l			JFIN CLO 2013 Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000				1			JFIN CLO 2014 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2014-11 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
0000							JFIN CLO 2014-11 Etd.	CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
								CYM					MMLIC		+
0000					L	l	JFIN CLO 2015-II Ltd.	btM	NIA	Apex Credit Partners LLC	Ownership	85.000	MWLIV		

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						Name of Constition			Deletion			Owner-		SCA	
						Name of Securities			Relation-		Board,				
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000	0.0upu0	0000		1.005	0	terriaderialy	JFIN CLO 2016 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership.	100.000	MMLIC	(1711)	+
0000							JFIN CLO 2017 Ltd.	CYM	NIA	Apex Credit Partners LLC	Owner ship.	100.000	MMLIC		
0000							JFIN CLO 2017 Ltd.	CYM	NIA NIA	Apex Credit Partners LLC	Ownership.	100.000	MMLIC		
							JFIN CLU 2017-11 Ltd.	UTM	NIA	Massachusetts Mutual Life Insurance	Owner Strip		MINILIU		
0000			04 4500050				101 D 111 D	DE				400 000	188.10		
0000			04-1590850				MM Copper Hill Road LLC	UE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							MM Direct Private Investments UK Limited	GBR	NI A	MM Direct Private Investments Holding LLC .	Ownership	100.000	MMLIC		
1			1					1		Massachusetts Mutual Life Insurance					
0000							MM Investment Holding	CYM	NIA	Company	Ownership	100.000	MMLIC		
0000		.	26-0073611	.			MassMutual Asset Finance LLC	DE	NIA	MM Investment Holding	Ownership		MMLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE	NI A	C.M. Life Insurance Company	Ownership.	0.400			
			90-1005837				MMAF Equipment Finance LLC 2013-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000		1	36-4785301	1			MMAF Equipment Finance LLC 2014-A	DE	NIA	MassMutual Asset Finance LLC	Owner ship.	100.000	MMLIC	1	
			38-3969560				MMAF Equipment Finance LLC 2015-A	DE	NIA	MassMutual Asset Finance LLC	Ownership.	100.000	MMLIC		1
.0000			32-0489588				MMAF Equipment Finance LLC 2016-A	DE	NIA	MassMutual Asset Finance LLC	Owner ship.	100.000	MMLIC		
0000			35-2590691				MMAF Equipment Finance LLC 2017-A	DE	NIA	MassMutual Asset Finance LLC	Owner ship.	100.000	MMLIC		
0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Owner ship.	100.000	MMLIC		
0000			82-5335801				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC		100.000	MMLIC		
0000			83-3722640				MMAF Equipment Finance LLC 2018-A	DE			Ownership				
			83-3722640				MMAF Equipment Finance LLC 2019-A	UE	NIA	MassMutual Asset Finance LLC	Ownership.	100.000	MMLIC		
0000							MMAF Equipment Finance LLC 2019-B	DE	NI A	MassMutual Asset Finance LLC	Owner ship	100.000	MMLIC		
0000							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000							Rozier LLC	DE	NI A	MassMutual Asset Finance LLC	Owner ship	100.000	MMLIC		
0000			04-2443240				MML Management Corporation	MA	NIA	MM Investment Holding	Ownership	100.000	MMLIC	Y	
0000			04-3548444				MassMutual International Holding MSC, Inc	MA	NI A	MML Management Corporation	Owner ship	100.000	MMLIC		
0000			04-3341767				MassMutual Holding MSC, Inc.	MA	NIA	MML Management Corporation	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MML CM LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000							Blueprint Income LLC	NY	NIA	MML CM LLC	Owner ship.	100.000	MMLIC		
0000							Flourish Digital Assets LLC	DE	NIA	MML CM LLC	Owner ship.	100.000	MMLIC		
0000							Flourish Financial LLC	DE	NIA	MML CM LLC	Ownership.	100.000	MMLIC		
0000							Flourish Technologies LLC	DE	NIA	MML ON LLC	Owner ship.	100.000	MMLIC		
							Trout 13th recililotogres EE0			Massachusetts Mutual Life Insurance	Owner Strip		MINETO		
0000			04-3356880				MML Distributors LLC	MA	NIA	Company	Ownership.		MMLIC		
			04-3356880					MA							
0000			U4-333688U				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	-	
0000		I	I	1				DE		Massachusetts Mutual Life Insurance	l	400 000	144 10	ı	
0000		-					MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
		I	l	1				l		Massachusetts Mutual Life Insurance	1		l	ı	
0000			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Owner ship	100.000	MMLIC		
			1					1		Massachusetts Mutual Life Insurance					
.0000		.	06-1563535	. 2881445			The MassMutual Trust Company, FSB	CT	NIA	Company	Ownership	100.000	MMLIC	Y	
			1				MML Private Placement Investment Company I,	1		Massachusetts Mutual Life Insurance					
.0000			04-1590850				LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
.0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
.0000			04-1590850	1			MML Private Equity Fund Investor LLC	DE	NIA	Baring Asset Management Limited	Management		MMLIC		1
0000			04-1590850	1			MM Private Equity Intercontinental LLC	DE	NIA	MML Private Equity Fund Investor LLC	Ownership.	100.000	MM IC		1
										Massachusetts Mutual Life Insurance					1
0000		I	45-2738137	1			Pioneers Gate LLC	DE	NIA		Ownership.	100.000	MMLIC	ı	
0000			40-2/30/3/				FIUNEERS WATE LEG	VE	NIA	Company	Owner SITP		WIVIL TO		
0000		I	04 0054040	0000040			W W A T W A D W A	DE		Massachusetts Mutual Life Insurance	l	400 000	144 10		
0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC	Y	
0000			06-1597528				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Owner ship	100.000	MMLIC	.	
0000			37-1732913				Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	.	
.0000		.1	I	1			Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		

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											Type	If			ı
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						Name of Securities			Relation-		Board,	Owner-		SCA	ı
						Exchange		Domi-	ship		Management,	ship		Filina	ı
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	ı
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	ı
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
0000	Group Harrie	Oodc	46-2252944	ROOD	Ont	international)	Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	(1/14)	
0000			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		1
0000			01 1000000				MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		1
0000							Athens Fund Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		1
0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.000	MMLIC		1
0000							MassMutual Ventures Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		ļ
							MassMutual Ventures SEA Management Private								ı
0000							Limited	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		ł
0000							MassMutual Ventures Southeast Asia I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC	· [
0000							MassMutual Ventures Southeast Asia II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
0000			47-1296410				MassMutual Ventures UK LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC	· [······
0000			4/-1290410				MassMutual Ventures US I LLC	DE	NIA NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
0000							MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		1
0000							Open Alternatives LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership.	100.000	MMLIC		1
							opon mitoriativos els			Massachusetts Mutual Life Insurance	omor omp.	100.000			1
0000			04-1590850				MM Rothesay Holdco US LLC	DE	NIA	Company	Ownership	100.000	MMLIC	.	il
0000							Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership.	100.000	MMLIC		
0000							Rothesay Life Plc	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC	.	
0000							Rothesay MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Owner ship	100.000	MMLIC		ļ
0000							Rothesay MA No.2 Limited	GBR	NIA	Rothesay Life PLC	Owner ship	100.000	MMLIC		·
0000							Rothesay MA No.3 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		}
0000							Rothesay MA No.4 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		}
0000							LT Mortgage Finance Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		f
0000							Rothesay Property Partnership 1 LLP	GBR GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		(
0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Owner ship	100.000	MMLIC		í
							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Asset Management UK Limited	Owner ship	100.000	MMLIC		i
0000							Rothesay Asset Management Australia Pty Ltd .	AUS	NIA	Rothesay Asset Management UK Limited	Ownership.	100.000	MMLIC		1
0000							Rothesay Asset Management US LLC	DE	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		1
0000							MM Catalyst Fund LLC	DE	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC		1
0000			47-1466022				LifeScore Labs, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		ı
0000			04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		·
0000			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		t
0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		}
0000			45-4000072				MM Asset Management Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000			51-0504477				Barings LLC	DE	NIA	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		·····
0000		1	98-0524271	I	1	1	Baring Asset Management (Asia) Holdings Limited	HKG	NIA	Barings LLC	Ownership.	100.000	MMLIC		, !
0000			30-0324211				Baring International Fund Managers (Bermuda)	nvu	NIA	Baring Asset Management (Asia) Holdings	Owner sittp	100.000	WWLIU		
0000		1	98-0457465	1	1		Limited	BMU	NIA	Limited	Ownership.	100.000	MMLIC		, l
			00 0101 100				Limitod			Baring Asset Management (Asia) Holdings	omici dirip		mile 10		1
0000			98-0457463				Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership.	100.000	MMLIC		ı
0000							Baring Asset Management Korea Limited	K0R	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		1
							Barings Investment Management (Shanghai)								ı
0000							Limited	HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC	. []	,
1		1		I	1	1	Barings Overseas Investment Fund Management								,
0000							(Shanghai) Limited	HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC	. [·
0000		1	00 0457707	I	1	1	Danisa 0105 (Taines) Lilita	TWN	AU. A	Baring Asset Management (Asia) Holdings	0	400 000	184 10		, !
0000			. 98-0457707				Baring SICE (Taiwan) Limited	TWN	NIA	Limited	Ownership	100.000	MMLIC	· [
0000		I		I	I		Barings Singapore Pte. Ltd.	SGP	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		, l
DOUU							Dai mys smyapore rte. Ltu	ur	NIA	Baring Asset Management (Asia) Holdings	owner strip	100.000	WWLTO		
0000		1	98-0236449	1	1		Barings Japan Limited	.IPN	NIA	Limited	Ownership	100.000	MMLIC		, l
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											(Ownership,	is		Is an	
						No			D. L. C.						
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
Code	Group Name	Code	Nullibel	KOOD	CIR	international)	Of Allillates	tion	Littly		Otrier)	laye	Littity(les)/Feison(s)	(1/14)	+
										Baring Asset Management (Asia) Holdings					
0000							Barings Australia Holding Company Pty Ltd	AUS	NIA	Limited	Owner ship	100.000	MMLIC		
.0000			98-0457456				Barings Australia Pty Ltd	AUS	NIA	Baring Australia Holding Company Pty Ltd	Owner ship	100.000	MMLIC		
0000			80-0875475				Barings Finance LLC	DE	NIA	Barings LLC	Owner ship	100.000	MMLIC		
.0000							BCF Europe Funding Limited	IRL	NIA	Barings Finance LLC	Owner ship	100.000	MMLIC		
.0000							BCF Senior Funding LLC	DE	NI A	Barings Finance LLC	Ownership.	100.000	MMLIC		
							BCF Senior Funding Designated Activity			, and the second					
.0000							Company	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000			04-3238351				Barings Securities LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			98-0437588				Barings Guernsev Limited	GGY	NIA	Barings LLC	Owner ship.	100.000	MMLIC		
0000			000 0707000				Barings Europe Limited	GBR	NIA	Barings Guernsey Limited	Owner ship.	100.000	MMLIC		1
0000								ESP	NIA	Barings Europe Limited		100.000	MMLIC	-	1
							Barings Asset Management Spain SL				Ownership				
0000							Barings Italy S.r.I.	ITA	NI A	Barings Europe Limited	Owner ship	100.000	MMLIC		
0000							Barings Sweden AB	SWE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000							Barings Finland Oy	FIN	NI A	Barings Europe Limited	Owner ship	100.000	MMLIC		
0000							Barings Netherlands B.V.	NLD	NI A	Barings Europe Limited	Owner ship	100.000	MMLIC		
0000							Barings Real Estate UK Holdings Limited	DE	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
							Barings Real Estate Advisers (Continental								
0000			98-0654401				Europe) Limited	GBR	NIA	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0654388				Barings Real Estate Advisers Europe LLP	GBR	NIA	Barings Real Estate UK Holdings Limited	Ownership	100.000	MMLIC		1
0000			98-1194368				Barings Real Estate GmbH	DEU	NIA	Barings Real Estate UK Holdings Limited	Owner ship.		MMLIC		
0000			98-0241935				Baring Asset Management Limited	GBR	NIA	MassMutual Holdings (Bermuda) Limited	Owner ship.		MMLIC		
			90-0241933												
0000							Barings European Direct Lending 1 GP LLP	GBR	NI A	Baring Asset Management Limited	Owner ship	100.000	MMLIC		
0000			98-1012393				Barings Global Advisors Limited	GBR	NIA	Baring Asset Management Limited	Owner ship	100.000	MMLIC		
0000			98-0457328				Baring International Investment Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
							Baring International Investment Management								
0000			98-0457587				Holdings	GBR	NI A	Baring Asset Management Limited	Owner ship	100.000	MMLIC		
										Baring International Investment Management					
0000			98-0457576				Baring Asset Management UK Holdings Limited.	GBR	NIA	Holdings	Ownership	100.000	MMLIC		
										Baring Asset Management UK Holdings Limited					
0000			98-0465031				Baring Asset Management GmbH	DEU	NIA	Salving roose management on noverigo 21mm too	Ownership	100.000	MMLIC		
0000			. 30-0403031				Baring International Fund Managers (Ireland)	DL0		Baring Asset Management UK Holdings Limited	I Owner Sirrp		. INVILITO		
.0000			98-0524272				Limited	IDI	ALL A	baring Asset Management on Horumgs Emilited	Owner ship	100 000	MMLIC		
			98-0524272				Limited	IRL	NIA	5 . 4 . 4 . 4 . 4	Uwnersnip	100.000	MMLIC		
										Baring Asset Management UK Holdings Limited	1				
0000							Baring Asset Management Switzerland Sàrl	CHE	NIA		Ownership	100.000	MMLIC		
1				1	1			1		Baring Asset Management UK Holdings Limited	1		1	1	
.0000			98-0497550				Baring France SAS	FRA	NI A		Owner ship	100.000	MMLIC		
0000		.	98-0457586				Baring Fund Managers Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC	.	
.0000		l					BCGSS 2 GP LLP	GBR	NI A	Baring Fund Managers Limited	Ownership.	100.000	MMLIC		
0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000							Barings Core Fund Feeder GP S.à.r.l.	LUX	NIA	Baring Asset Management Limited	Owner ship.	100.000	MMLIC		1
.0000							Barings BME GP S.à.r.I.	GBR	NIA	Baring Asset Management Limited	Owner ship.		MMLIC		
0000							Barings GPC GP S.à. r.I.	LUX	NIANIA	Baring Asset Management Limited	Ownership.	100.000	MMLIC	-	1
.0000								LUX					MMLIC		
							Barings European Core Property Fund GP Sàrl		NIA	Baring Asset Management Limited	Ownership	100.000			1
0000							Barings Investment Fund (LUX) GP S.à. r.I	LUX	NIA	Baring Asset Management Limited	Owner ship	100.000	MMLIC		
0000							Barings Umbrella Fund (LUX) GP S.à.r.I.	LUX	NI A	Baring Asset Management Limited	Owner ship	100.000	MMLIC		
0000							GPLF4(S) GP S.à r.I	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC	.	
0000							PREIF Holdings Limited Partnership	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-0432153				Barings (U.K.) Limited	GBR	NIA	Barings Guernsey Limited	Ownership	100.000	MMLIC	.	
0000			l	l	l		BMC Holdings DE LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	[
0000			04-3238351	3456895			Barings Real Estate Advisers Inc.	CA	NIA	Barings Real Estate Advisers LLC	Owner ship.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
0000			81-4258759		1	1	CRA Aircraft Holding LLC	DE	NIA	Company	Ownership/Influence	40.000	MMLIC	1	1
								DE				40.000	MMI IC		1
0000			81-4258759				CRA Aircraft Holding LLC	UE	NIA	Barings LLC	Influence		MIVILIU	. [

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Section Sect									25					188 10		
Description													26.700			
Dec.	0000			83-0560183				Aland Royalty Holdings LP	. DE	NIA		Management	<u>.</u>	. MMLIC		
	0000			82-2932156				GASL Holdings LLC	. DE	NIA		Ownership	11.300			
Milestone Acquisition bindings (LC)											Massachusetts Mutual Life Insurance					
Milestone Acquisition bindings (LC)	0000							Intermodal Holdings II LLC	DE	NIA	Company	Ownership				
New strone Corporation New strone Corporation No. No	0000			47-3055009				Milestone Acquisition Holding, LLC.	DE	NIA	MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		
Novation Corpanies, Inc. No. Natural Natural Life Insurance 16.500 MLIC	0000		l	47-3055009				Milestone Acquisition Holding, LLC.	DE	NIA	Barings LLC	Influence_		MMLIC		
Noval time Corpanies Noval time Corpanies Noval time Corpany Section Section	1															
Massachusetts Mustal Life Incurance December Massachusetts Mustal Life Incurance December Massachusetts Mustal Life Incurance Massachu	0000							Novation Companies, Inc.	MD	NIA		Ownership	16.500	MMLIC		
Red Lake Ventures, LLC				1												1
	0000			46-5460300				Red Lake Ventures IIC	D⊏	NIA		Ownership/Influence	31 500	MMLIC		
									UE							
D000				40-3400309				neu Lake ventures, LLC	UE	NIA		IIII Tuelice		. MIVILIO		
	2000			04 4005070				Denis at a 1 0 W Haldis as 110	DE	ALL A		0	10.000	184 10		
Description													19.900			
	0000			81-4065378				Hemington L & W Holdings LLC	. UE	NIA		Influence		. MMLIC		
Teaktree Acquisition, LLC																
Teaktree Acquisition, LLC									DE							
Techquity, LP									DE				14.700			
	0000							Teaktree Acquisition, LLC	DE	NI A	Barings LLC	Influence		. MMLIC		
											Massachusetts Mutual Life Insurance					
	0000		l					Techquity, LP	DE	NIA	Company	Ownership	15.600	MMLIC		
	0000								DE	NIA	Barings LLC	Influence		MMLIC		
Nassachusetts Mutual Life Insurance Nassachusetts Nass				46-0687392					DE				40.400			
Validus Pharmaceuticals LLC								Tarrado riorarrigo company 220								1
DOCO	0000							Validus Pharmacouticals IIC	DE.	NΙΔ		Ownership/Influence	70 000	MML IC		
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D000 Barings ERS PE Emerging Manager III GP, LLC DE NIA Barings LLC Ownership 100.000 MMLIC								Barings Emerging Generation Fund GP, LLC		NI A	Barings LLC					ļ
Barings Global Investment Funds (U.S.)	0000							Barings ERS PE Emerging Manager III GP, LLC		NIA	Barings LLC	Ownership	100.000	MMLIC		
.0000			1	1	1				1			1			1	
.0000	0000		l	04-1590850	l				DE	NIA	Barings LLC	Owner ship.	100.000	MMLIC	1	1
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Dat rings bit ext Letiting GF Ltd								Darrings Direct Lending of Ltd.				Omioi siiip	100.000	mmLIV		1
	0000		I	04 2704245	1		ĺ	Parings Emerging Congretion Fund ID	DE	NI A		Ownership	66 600	MALLC		
								Darings Emerging Consection Fund LP					000.000			
	0001			04-3/84245					UE	NIA	Dat ings LLC	management		. INVINIL I C		
Barings Global Energy Infrastructure			I	I	1		ĺ		D=	NII *	la : 110	l	400 000	188.10		
	0000								. UE	NIA	Barings LLC	Uwnership	100.000	MMLIC		
Barings North American Private Loan Fund			I	I	1		ĺ		1			1				
	0000								. DE	NIA	Barings LLC	Ownership	100.000	. MMLIC		
Barings North American Private Loan Fund			I	I	1		ĺ					1				
									DE			Ownership	100.000			
Barinos Global Real Assets Fund GP, LLC DE NIA Barinos LLC Ownership 100,000 MMLIC	0000		l	l	l			Barings Global Real Assets Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	1	1

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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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)	(Y/N)	*
0000							Barings GPSF	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Company	Ownership.	32.900	MMLIC		
0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Barings LLC	Management		MMLIC		
0000			98-0536233				Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000			30-0330233					DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
							BHOVI Incentive LLC	UE	NIA				MMLIC		
0000							BIG Real Estate Fund GP LLC	DE		Barings LLC	Ownership	100.000			
0000							BRECS VII GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							BREDIF GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							CHY Venture GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							CREF X GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		1
0000		l	04-1590850	l			Great Lakes III GP, LLC	DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
0000							Lake Jackson LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			04-1590850				Loan Strategies Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership.	99.300	MMLIC		
0000			80-0920285				Mezzco IV LLC	DE	NIA		Ownership.	99.300	MMLIC		
			00-0920200							Barings LLC					
0000							Mezzco Australia II LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
0000							RECSA-NY GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			04-1590850				SBNP SIA II LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000							SBNP SIA III LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
							Somerset Special Opportunities Management LLC								
0000			04-1590850					DE	NIA	Barings LLC	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Amherst Long Term Holdings, LLC	DE	NIA	Company	Ownership	24.500	MMLIC		
							Aminor St. Long. Form Horurings, ELO			Massachusetts Mutual Life Insurance	Owner strip.	24.000	MML10		
. 0000			04-3313782				MassMutual International LLC	DE	NIA		Ownership.	100 000	MMLIC	v	
			04-3313782					DE		Company		100.000		Y	
0000							MassMutual Solutions LLC	DE	NIA	MassMutual International LLC	Owner ship	100.000	MMLIC		
0000							Haven Technologies Asia Limited	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
0000							Yunfeng Financial Group Limited	HKG	NI A	MassMutual International LLC	. Ownership	24.900	MMLIC		
0000							MassMutual Asia Limited (SPV)	HKG	NIA	MassMutual International LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MML Mezzanine Investor II, LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MML Mezzanine Investor III, LLC	DE	NIA	Company	Ownership.	11.100	MMLIC		
0000		l	OT 1000000				mmL mozzanino nivostoi III, LLO		1417	Massachusetts Mutual Life Insurance	omior on p		mme I V		1
0000		1	27-3576835			1	Managhatual External Benefita Cray 110	DE	NIA		O-manah i-	100,000	MMLIC	1	
0000			21-33/6833				MassMutual External Benefits Group LLC	VE	NIA	Company	Ownership	100.000	MWLIC		
		I								Massachusetts Mutual Life Insurance	1			1	
0000			04-1590850				100 w. 3rd Street LLC	DE	NIA	Company	Ownership	100.000	MMLIC		4
						1				Massachusetts Mutual Life Insurance					
0000			04-1590850				2160 Grand Manager LLC	DE	NIA	Company	Ownership	98.100	MMLIC		
		1					-			Massachusetts Mutual Life Insurance	1				
0000			82-2432216				300 South Tryon Hotel LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			02 2 1022 10				000 000111 11 7011 110101 220 1111111111			Massachusetts Mutual Life Insurance					
0000			04-1590850				300 South Tryon LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			04-1090000				300 300th Hydri LLC	VE	NI A	Massachusetts Mutual Life Insurance	. Owner sirrp	100.000	MWLIC		
0000						1	Almost Monocine Fond (1, 0, 1	ODD	NI2 A		0	70.000	188 10		
0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership/Influence	72.900	MMLIC		
1		I					Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance	1.			1	
0000							LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
						1	Barings Affordable Housing Mortgage Fund I								
0000				l			LLC	DE	NIA	Barings LLC	Management		MMLIC		.1
1							Barings Affordable Housing Mortgage Fund II			Massachusetts Mutual Life Insurance					
0000			61-1902329			1	LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							Barings Affordable Housing Mortgage Fund II								
0000		I	61-1902329				IIC	DE	NIA	Barings LLC	Management		MMLIC	1	
UUUU		l	0 1-1302323				LLV	VC		Dai 11195 LLU	mandyellerit		MML10		4

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
Code	Group Name	Code	Number	KSSD	CIK	international)		lion	Entity		Other)	lage	Entity(les)/Person(s)	(Y/IN)	+
			ar aaaaaa				Barings Affordable Housing Mortgage Fund III			Massachusetts Mutual Life Insurance		400.000			
0000			. 85-3036663				LTC	DE	NIA	Company	Ownership	100.000	MMLIC		
							Barings Affordable Housing Mortgage Fund III								
0000			. 85-3036663				LLC	DE	NIA	Barings LLC	Management	·····	MMLIC		
										Massachusetts Mutual Life Insurance					
			. 36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Company	Ownership/Influence	12.300	MMLIC		
0000			36-4868350				Barings Asset-Based Income Fund (US) LP		NIA	C.M. Life Insurance Company	Ownership/Influence	1.200	MMLIC		
0000			. 36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Barings LLC	Management		MMLIC		
				1	1		Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance			I		
0000								IRL	NIA	Company	Ownership/Influence	71.600	MMLIC		
				1	1		Barings Emerging Markets Corporate Bond Fund				I		l		
0000								IRL	NIA	Barings LLC	Management		MMLIC		
l				1	1		Barings European Real Estate Debt Income Fund			Massachusetts Mutual Life Insurance		1			
.0000								LUX	NI A	Company	Ownership/Influence	100.000	. MMLIC		
							Barings European Real Estate Debt Income Fund								
0000								LUX	NIA	Barings LLC	Influence		MMLIC		
							Babson Capital Global Special Situation			Massachusetts Mutual Life Insurance					
.0000			98-1206017				Credit Fund 2	DE	NI A	Company	Ownership/Influence	34.300	. MMLIC		
							Babson Capital Global Special Situation								
.0000			98-1206017				Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership	2.200	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	75.700	MMLIC		
.0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	C.M. Life Insurance Company	Ownership.	3.800	MMLIC		
.0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Barings US High Yield Bond Fund	IRL	NIA	Company	Ownership/Influence	57.200	MMLIC		
0000							Barings US High Yield Bond Fund	IRL	NIA	Barings LLC	Management		MMLIC		
0000							Babson CLO Ltd. 2013-I	CYM	NIA	Barings LLC	Influence		MMLIC		3
.0000							Babson CLO Ltd. 2014-I	CYM	NIA.	Barings LLC	Influence		MMLIC		2
0000							Babson CLO Ltd. 2015-I	CYM	NIA	Barings LLC	Influence		MMLIC		4
0000							Babson CLO Ltd. 2015-II	CYM	NIA	Barings LLC	Influence		MMLIC		5
.0000							Babson CLO Ltd. 2015-11	CYM	NIA	Barings LLC	Influence.		MMLIC		
0000							Babson CLO Ltd. 2016-1	CYM	NIA	Barings LLC	Influence.		MMLIC		1
.0000							Barings CLO Ltd. 2017-1	CYM	NIA	Barings LLC	Influence		MMLIC		1
.0000		-					Barings CLO 2018-III	CYM	NIA	Barings LLC	Influence.		MMLIC		1
.0000		-					Barings CLO 2018-IV	CYM	NIA	Barings LLC	Influence.	···· ·	MMLIC		1
.0000		-	98-1473665				Barings CLO 2018-1V	CYM	NIA	Barings LLC	Influence.		MMLIC		1
0000			50-14/3000					CYM	NIA	Barings LLC	Influence.		MMLIC		1
.0000							Barings CLO 2019-III	CYM	NIA	Barings LLC	Influence.		MMLIC		1
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0000		-					Barings CL0 2020-1	CYM	NIA	Barings LLC	Influence		MMLIC		·
0000							Barings CLO 2020-II	CYM	NIA	Barings LLC	Influence	···· -····	MMLIC		
0000		-					Barings CL0 2020-III	CYM	NIA	Barings LLC	Influence		MMLIC		·
0000							Barings CLO 2020-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Barings CLO 2021-I	CYM	NI A	Barings LLC	Influence	· 	MMLIC		
0000							Barings CLO 2021-II	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2014-I BV	NLD	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2014-II BV	NLD	NIA	Barings LLC	Influence	···· 	MMLIC		
							Babson Euro CLO 2015-I BV	NLD	NIA	Barings LLC	Influence		MMLIC		
0000							Babson Euro CLO 2016-I BV	NLD	NIA	Barings LLC	Influence	 	MMLIC		
			. 36-037260H				Barings Euro CLO 2019-I BV	IRL	NIA	Barings LLC	Influence		MMLIC		
0000							Barings Euro CLO 2019-II BV	IRL	NIA	Barings LLC	Influence		MMLIC		
0000		1	1	1	1		Barings Euro CLO 2020-1 DAC	IRL	NIA	Barings LLC	Influence.		MMLIC	1	1

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0000			37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NIA	Barings LLC	Influence.	-	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Company	Ownership/Influence	99.300	MMLIC		
0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Barings LLC	Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	Company	Ownership/Influence	62.800	MMLIC		
0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	C.M. Life Insurance Company	Ownership	5.500	MMLIC		
0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	Barings LLC	Management		MMLIC		
				"			Barings Real Estate European Value Add I SCSp	1		Massachusetts Mutual Life Insurance	-				
0000		l	l	[]				GBR	NIA	Company	Ownership/Influence	41.200	MMLIC		
							Barings Real Estate European Value Add SCSp			. ,					
0000			1	1			0	GBR	NIA	C.M. Life Insurance Company	Ownership.	4.600	MMLIC		
							Barings Real Estate European Value Add SCSp			2.10 mod and company					
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0000								ubn		Massachusetts Mutual Life Insurance	management		. WWLIG		
0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
0000													MMLIC		
			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership				
0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Barings LLC	Management		. MMLIC		
0000			82-5330194				Barings Global Em. Markets Equity Fund	NC	NIA	Barings LLC	Management		MMLIC		
							Barings Global Energy Infrastructure Fund I			Massachusetts Mutual Life Insurance					
000Q			98-1332384				LP	CYM	NI A	Company	Ownership/Influence	99.200	. MMLIC		
							Barings Global Energy Infrastructure Fund I								
0000			98-1332384				LP	CYM	NI A	Baring Asset Management Limited	Management		MMLIC		
0000							Barings Global Dividends Champion Fund	IRL	NI A	Barings LLC	Management		MMLIC		
000Q							Barings Global Inv. Grade Strat Fund	IRL	NI A	Barings LLC	Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Barings Global Private Loan Fund	LUX	NIA	Company	Ownership/Influence	10.500	MMLIC		
0000							Barings Global Private Loan Fund	LUX	NIA	Barings LLC	Management		MMLIC		
							,			Massachusetts Mutual Life Insurance					
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Company	Ownership/Influence	41.700	MMLIC		
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership.	7.400	MMLIC		
0000			82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
			02 0001110				Barings Global Special Situations Credit Fund			Massachusetts Mutual Life Insurance					
0000							2	IRL	NIA	Company	Ownership/Influence	17.900	MMLIC		
							Barings Global Special Situations Credit 4			Massachusetts Mutual Life Insurance					
0000]	I	1			Delaware	DE	NIA	Company	Ownership.	70.400	MMLIC		
0000		l					Barings Global Special Situations Credit 4			oumparty	Owner amp				
0000			1	1				DE	NIA	C.M. Life Insurance Company	O-manahi-	2 700	MMLIC		
טטטע							Delaware	DE	NI A	U.W. Life Insurance Company	Ownership	3.700	MINIL I C		
0000		İ	I	1			Barings Global Special Situations Credit 4	DE		D : 110	l., .		IIII 10	1	
0000							Delaware	DE	NI A	Barings LLC	Management		MMLIC		
		İ	I	1			Barings Global Special Situations Credit 4	l		Massachusetts Mutual Life Insurance	I		l	1	
0000							LUX	LUX	NIA	Company	Ownership	16.000	. MMLIC		
			1	1			Barings Global Special Situations Credit 4	l							
000Q							LUX	LUX	NI A	C.M. Life Insurance Company	Ownership	0.900	MMLIC		
			1	1			Barings Global Special Situations Credit 4	l							
0000							LUX	LUX	NI A	Barings LLC	Management		. MMLIC		
		l	I	1			Barings Global Special Situations Credit Fund	1		1				1	
0000							3	IRL	NI A	Barings LLC	Management	<u>.</u>	MMLIC		
0000			87-0977058	.[Barings Hotel Opportunity Venture	CT	NIA	Barings LLC	Ownership/Influence	100.000	MMLIC		
0000			87-0977058	.[]			Barings Hotel Opportunity Venture	CT	NIA	Barings LLC	Management		MMLIC		
0000							Barings Middle Market CLO 2017-I Ltd & LLC	CYM	NIA	Barings LLC	Influence		MMLIC		
0000			1				Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence.		MMLIC		
0000			1				Barings Middle Market CLO 2019-1	CYM	NIA	Barings LLC	Influence	 	MMLIC		
0000			98-1612604				Barings Middle Market CLO Ltd 2021-1	CYM	NIA	Barings LLC	Influence		MMLIC		
0000							Dailings middle mainet out Liu 2021-1	IIII	NIV	Dai iligo LLO			MINILIV		

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Group		Company	ID.	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	. !
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
										Massachusetts Mutual Life Insurance					
0000			. 38-4010344				Barings North American Private Loan Fund LP .	DE	NIA	Company	Ownership/Influence	42.400	MMLIC		
0000			38-4010344				Barings North American Private Loan Fund LP .	DE	NIA	Baring Asset Management Limited	. Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NIA	Company	Ownership/Influence	33.800	MMLIC		
0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NIA	Baring Asset Management Limited	. Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Braemar Energy Ventures I, L.P.	DE	NIA	Company	Ownership/Influence		MMLIC		
0000							Braemar Energy Ventures I, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership	1.300	. MMLIC		.
0000							Braemar Energy Ventures I, L.P.	DE	NIA	Barings LLC	. Management		. MMLIC		
0000							Barings European Core Property Fund SCSp	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	9.200	. MMLIC		
0000							Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership	0.600	. MMLIC		
0000							Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management	<u>.</u>	MMLIC		.
0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	NY	NIA	Barings LLC	. Influence		. MMLIC		
0000							Benchmark 2018-B4	NY	NIA	Barings LLC	. Influence		MMLIC		.
0000			38-4096530				Benchmark 2018-B8	NY	NIA	Barings LLC	Influence		MMLIC		
0000			20-5578089				Barings Core Property Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	20.900	MMLIC		.
0000			20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Company	Ownership/Influence	25.300	MMLIC		. '
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	C.M. Life Insurance Company	Ownership	2.800	MMLIC		. !
0000			46-5432619				Cornerstone Real Estate Fund X LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			35-2531693				Cornerstone Permanent Mortgage Fund III LLC .	MA	NIA	Company	Ownership/Influence	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	MA	NIA	Company	Ownership.	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Eclipse Business Capital Holdings	DE	NIA	Company	Ownership/Influence	6.700	MMLIC		
0000							Eclipse Business Capital Holdings	DE	NIA	Barings LLC	. Management.		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Company	Ownership/Influence	32.000	MMLIC		
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Ownership.	4.800	MMLIC		
0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000]	37-1708623				Great Lakes III, L.P.	DE	NIA	Company	Ownership/Influence	41,400	MMLIC		
0000			37-1708623				Great Lakes III. L.P.	DE	NIA	Barings LLC	Management		MMLIC		
				1						Massachusetts Mutual Life Insurance	390				
0000]					GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Company	Ownership/Influence	60 . 100	MMLIC		
0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	Management		MMLIC		
0000							JPMCC Commercial Mortgage Securities Trust			Dai mgs EE0	managoment		MWL10		
0000			38-4041011				2017-JP7	NY	NIA	Barings LLC	Influence		MMLIC		
0000			1014041011				JPMDB Commercial Mortgage Securities Trust		NIA	Dai mys LLC	. IIII luelice	······	MWLTO		
0000			38-4032059				2017-C5	NY	NIA	Barings LLC	Influence		MMLIC		
0000			30-4032039				2017-03		NIA	Massachusetts Mutual Life Insurance	. IIII lucilice		WWILTO		
0000			82-1512591				KKR-MM Vector LP	DE	NIA	Company Company	Ownership/Influence	100.000	MMLIC		
0000			02-1012091				MAIN-MMM VEGLUI LF	DE	INTA	Massachusetts Mutual Life Insurance	owner strip/ itti ruence		WINIT IO		
0000			46-4255307				Marco Hotel LLC	DE	NIA		Ownership	100.000	MMLIC		
0000			40-420030/				maico notei LLC	UE	N1A	Company	Ownership	100.000	WINLIG		
0000]	04 1500050				Miami Davidae One CD 110	DE.	NIA A	Massachusetts Mutual Life Insurance	O-marahi-	0.000	MAR IC		1
0000			04-1590850				Miami Douglas One GP LLC	DE	NIA	Company	Ownership	0.000	. MMLIC		
0000			. 04–1590850				Miami Douglas One GP LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.500	. MMLIC		
0000]	04 4500050				W D. I. T. OD.I.C.	D=	AU. *	Massachusetts Mutual Life Insurance			144.10		1
0000			. 04-1590850				Miami Douglas Two GP LLC	DE	NIA	Company	Ownership	0.000	MMLIC		
0000			04-1590850				Miami Douglas Two GP LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.000	. 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	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
	•					'				Massachusetts Mutual Life Insurance	,		, , , , , ,		1
0000			. 04-1590850				Miami Douglas One LP	DE	NIA	Company	Ownership	90.000	MMLIC		
0000			04-1590850				Miami Douglas One LP	DE	NIA	C.M. Life Insurance Company	Owner ship	10.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Miami Douglas Two LP	DE	NIA	Company	Owner ship	90.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MM BIG Peninsula Co-Invest Member LLC	MA	NIA	Company	Ownership	91.300	MMLIC		
0000			04-1590850				MM BIG Peninsula Co-Invest Member LLC	MA	NIA	C.M. Life Insurance Company	Ownership.	3.000	MMLIC		
							Did i difficultà de l'invest member 220			Massachusetts Mutual Life Insurance					
0000			. 85-3886824				NYDIG Digital Assets Fund II LP	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000			04-1590850				Miami Douglas Two LP	DE	NIA	C.M. Life Insurance Company	Ownership	0.000	MMLIC		
							mrain bodgrab riio Li			Massachusetts Mutual Life Insurance	omoromp		mile 10		
0000			45-3623262				HB Naples Golf Owner LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
							TID Napres don owner LLO			Massachusetts Mutual Life Insurance	Offici strip	100.000	WWETO		
0000							MM CM Holding LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
							mill oil nording LLC			Massachusetts Mutual Life Insurance	Owner strip	100.000			
0000			. 81–3000420				MM Debt Participations LLC	DE	NIA	Company	Ownership/Influence	100.000	MMLIC		
0000			81-3000420				MM Debt Participations LLC	DE	NIA	Barings LLC	Management	100.000	MMLIC		
0000			. 61-3000420				mm bedt Faithcipations LLC	UE	NIA	Massachusetts Mutual Life Insurance	management		. MWLTC		
0000			82-4411267				RB Apartments LLC	DE	NIA	Company	Ownership.	100,000	MMLIC		
0000			. 02-4411207				nd Apai tillerits LLC	UE	NIA	Massachusetts Mutual Life Insurance	. Towner Sirrp	100.000	. MIVILIO		
0000			75-2901061				Reston Arboretum LLC	DE	NIA	Company Company	Ownership	100.000	MMLIC		
0000			. 75-2901001				neston Arboretum LLC	UE	NIA	Massachusetts Mutual Life Insurance	. Towner Sirrp	100.000	. MIVILIO		
0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NIA	Company	Ownership/Influence	40.100	MMLIC		
0000			. 20-8856877					VE	NIA	C.M. Life Insurance Company	Owner ship	1.900	MMLIC		
0000			04-1590850				Somerset Special Opportunities Fund L.P SouthPointe Industrial LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			. 04-1090600				SouthFornte industrial LLC	VE	NIA	Massachusetts Mutual Life Insurance	Owner Ship	100.000	. MIVILIO		
.0000			35-2553915				Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			. 41–2280127					VE	NIA	Barings LLC	Management	100.000	MMLIC		
0000			41-2280127				Tower Square Capital Partners III, L.P Tower Square Capital Partners III, L.P	DE	NIA	MassMutual Holding LLC	Ownership/Influence	16.500	MMLIC		
			. 41-2200121				Tower Square Capital Faithers III, L.F		NIA	Massachusetts Mutual Life Insurance	Owner Simp/ IIII ruence	10.300	WINILIU		
0000			41-2280129				Tower Square Capital Partners IIIA, L.P.	DE	NIA	Company	Ownership/Influence	91.000	MMLIC		
0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management.	91.000	MM IC		
0000			41-2200129				Tower Square Capital Partners ITTA, L.P	VE	NIA	Massachusetts Mutual Life Insurance	manayement		. INIMILIO		
0000			. 04-1590850				Trailside MM Member LLC	DE	NIA	Company	Owner ship	59.600	MMLIC		
0000			04-1590850				Trailside MM Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	7.400	MMLIC		
0000			04-1030000				ITATISTUE WWW WEINDEL LLU		NIA	Massachusetts Mutual Life Insurance	- Owner stilb	400	WINIT IO		
0000			83-1325764				Washington Gateway Two LLC	DE	NIA	Company	Owner ship	88.700	MMLIC		
0000			83-1325764				Washington Gateway Two LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
0000			00-1020/04				masinington dateway Iwo LLC		NIA	Massachusetts Mutual Life Insurance	Owner still	0.700	WINIT TO		
0000		1	32-0574045				Washington Gateway Three LLC	DE	NIA	Company Life Insurance	Owner ship.	83.700	MMLIC		
0000			. 32-0574045						NIA			11.400	MMLIC		
0000			. 32-05/4045				Washington Gateway Three LLC	DE	NIA	C.M. Life Insurance Company Massachusetts Mutual Life Insurance	Ownership	11.400			
0000			04-1590850				W4 404b 044 11-4-1 11 0	DE	NIA		0h:	100 000	MMLIC		
0000			. 04-1590850				West 46th Street Hotel LLC		NI A	Company	Ownership	100.000	MMLIC		
0000							Babson Capital Loan Strategies Master Fund LP			D : 110	l., .		188 10		
0000		·	1				Barings China Aggregate Bond Private	CYM	NIA	Barings LLC	Management	·	MMLIC		·····
0000		1	1					OLIN	ALLA	Designs III 0	W		MMLIC		1
0000			-				Securities Investment Fund	CHN	NIA	Barings LLC	Management	20.900	MMLIC	l	· · · · · · · · · · · · · · · · · · ·
0000		-	47 0700400				Barings European Growth Trust Fund	GBR	NIA		Ownership/Influence	∠0.900			·····
0000			. 47–3790192				Barings Global High Yield Fund	MA	NIA NIA	Barings LLC	Management	55.600	MMLIC		
0000		-	1				COTO FUND	CHN	NIA	Barings LLC	Ownership/Influence	00.600	NIVIL I U		·····
0000		1	74 4040404				0	DE	ALLA	Massachusetts Mutual Life Insurance	0	10,000	MMLIC		1
0000			. 71-1018134 71-1018134				Great Lakes II LLC	DE	NIA NIA	Company	Ownership.	10.600	MMLIC		·
0000			/ 1-1018134				ureat lakes II LLC	UE	NI A	C.M. Life Insurance Company	_ Uwnersnip	V. 100	. MMLIU		

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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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Code	Group Name	Code	Number	ROOD	CIIC	international)	Of Allillates	tiOH	Littly		Other)	tage	Littly(les)/i erson(s)	(1/14)	+
										Massachusetts Mutual Life Insurance					
0000			04-1590850				Wood Creek Venture Fund LLC	DE	NI A	Company	Ownership	40.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			36-4823011				50 Liberty LLC	DE	NIA	Company	Ownership.	65.000	MMLIC		
0000			36-4823011				50 Liberty LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	5.800	MMLIC		
0000			00 4020011				SO LIBERTY LLO				. Omici sirip	9.000			
										Massachusetts Mutual Life Insurance					
0000			87-0977058				Barings Hotel Opportunity Ventures	DE	NIA	Company	Ownership	50.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							Barings California Mortgage Fund IV	CA	NI A	Company	Ownership	100.000	MMLIC	1	1
		1							[Massachusetts Mutual Life Insurance				1	[
0000			1		1	1	Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Company	Ownership	26.100	MMLIC		1
0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	C.M. Life Insurance Company	Ownership	2.300	. MMLIC		
			1		1	1				Massachusetts Mutual Life Insurance	1				1
0000			82-2285211				Calgary Railway Holding LLC	DE	NIA	Company	Owner ship.	90.000	MMLIC		
0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
			02 2200211				oargary narrway nording LLO			Massachusetts Mutual Life Insurance	Owner strip.		MML10	-	
												400 000			
0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			95-4207717			l	Cornerstone California Mortgage Fund LLC	CA	NI A	Company	Ownership	100.000	MMLIC	.	.1
										Massachusetts Mutual Life Insurance					
0000			95-4207717				Cornerstone California Mortgage Fund II LLC .	CA	NIA	Company	Ownership	100.000	MMLIC		
			95-4201111				Corner Storie Carriornia mortgage Fund II LLC .	UH	NIA		. Owner Sirrp		WINILIO		
							Cornerstone California Mortgage Fund III LLC			Massachusetts Mutual Life Insurance					
0000			95-4207717					CA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	Company	Ownership	90.000	MMLIC		
0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
			30-2030392				Cornerstone Fort Frence Development LLC	UE	NIA		. Owner strip	0.900	WINIETO		
										Massachusetts Mutual Life Insurance					
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Company	Ownership	100.000	MMLIC		
0000			61-1750537				Cornerstone Dermanent Martagae Fund II	MA				100.000	MMLIC		
			01-1/0003/				Cornerstone Permanent Mortgage Fund II	MA	NIA	Barings LLC	Management				
			l			1				Massachusetts Mutual Life Insurance	1				
0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NIA	Company	Ownership	100.000	MMLIC		
0000		.	81-0890084	l	l	l	CREA Madison Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership.	100.000	MMLIC		.1
										Massachusetts Mutual Life Insurance		1			
0000			20-0348173			1	CREA/PPC Venture LLC	DE	NIA	Company	Ownership.	100.000	MMLIC		
0000			20-03401/3				UNLA/TTO VEHILLIE LLO		NIA		Owner on th		WWWLIO	-	
			l			1				Massachusetts Mutual Life Insurance	L				
0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NI A	Company	Ownership	94.400	MMLIC		
			1			1				Massachusetts Mutual Life Insurance					
0000			20-3347091		ĺ	1	Fan Pier Development LLC	DE	NIA	Company	Ownership.	66.200	MMLIC	1	
0000			20-3347091				Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
			20-004/03/			1	Tall Flor Development LLO	UL		Massachusetts Mutual Life Insurance	. Tomici silip	000		-	
					1	1					I	400.005			1
0000			04-1590850				GIA EU Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
			1		1	1				Massachusetts Mutual Life Insurance	1				1
.0000			81-5360103	l	l	1	Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC	.	J
]										Massachusetts Mutual Life Insurance					
0000			04-1590850			1	MM Inland Mamber II C	DE	NI A		Ownership	40,000	MMLIC		
.0000			U4-109U80U				MM Island Member LLC	UE	NIA	Company	Ownership	49.000	WINE 10	-	
			1		1	1				Massachusetts Mutual Life Insurance	1				1
0000			83-0881588				NoHo West Venture LLC	DE	NI A	Company	Ownership	94.800	MMLIC		
			1			1				Massachusetts Mutual Life Insurance					
0000			80-0948028			1	One Harbor Shore LLC	DE	NIA	Company	Ownership		WILLIC		
.0000			80-0948028					DE				6.000	MMLIC	-	
טטטע			00-0948028				One Harbor Shore LLC	UE	NIA	C.M. Life Insurance Company	Ownership	טטט.מ	. MMLIU		<u></u> .

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						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
	O No				0114								Citimate Controlling		
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	^
										Massachusetts Mutual Life Insurance					
0000			04-1590850				PACO France Logistices LLC	DE	NI A	Company	. Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-3393166				Portland 400 Sixth Manager LLC	DE	NIA	Company	Owner ship.	95.000	MMLIC		
										Massachusetts Mutual Life Insurance	,				
0000							Raleigh Crossing Phase I Holdings LLC	DE	NIA	Company	. Ownership.	90.000	MMLIC		
							Salomon Brothers Commercial Mortgage Trust	UL		oompany	. Owner simp.		. MINILIO		
0000						I	2001-MM	DE	NIA	Davings Deal Catata Advisers II C	Influence		MMLIC		
0000							ZUU I-MM	DE	NIA	Barings Real Estate Advisers LLC	Influence		MINIL I C		
										Massachusetts Mutual Life Insurance	l				
0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	Company	Ownership	84.200	MMLIC		
0000			27-2977720	.			Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company	Ownership	15.800	MMLIC		
l										Massachusetts Mutual Life Insurance					
0000			l	1	l	l	STOA Holding LLC	DE	NIA	Company	Ownership	50.000	MMLIC	[l
		1								Massachusetts Mutual Life Insurance		1			
0000			81-5273574			I	Three PW Office Holding LLC	DE	NIA	Company	Ownership	95.100	MMLIC		
0000			01-32/33/4				Till ee Till Office flordring LLC	UL		Massachusetts Mutual Life Insurance	. Owner strip		. WWLIV		
0000			05 0404550				T . T . L'1 . L . LO		A11.A		0 1:	05.000	188 10		
0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	Company	Ownership	65.000	MMLIC		
0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	C.M. Life Insurance Company	Ownership	35.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	Company	Ownership.	90.700	MMLIC		
0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	4.800	MMLIC		
			40-0401103				washington dateway Apartments venture LLC	UL		Massachusetts Mutual Life Insurance	Owner Strip		. WWILTO		
0000			E4 0E00000		0000007070	00	Nacobiton Dannier Nair Otanat Front	144	ALL A		0	04 000	IM 10		
0000			51-0529328		0000927972	0Q	MassMutual Premier Main Street Fund	MA	NIA	Company	Ownership	91.900	MMLIC		
							MassMutual Premier Strategic Emerging Markets			Massachusetts Mutual Life Insurance					
0000			26-3229251		0000927972	0Q	Fund	MA	NIA	Company	. Ownership	4.100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			01-0821120		0000916053	0Q	MassMutual Select Diversified Value Fund	MA	NI A	Company	Ownership.	0.800	MMLIC		l
										Massachusetts Mutual Life Insurance	,				
0000			04-3512593		0000916053	00	MassMutual Select Fundamental Growth Fund	MA	NIA	Company	. Ownership.	2.900	MMLIC		
			04 00 12000		0000010000	04	massimutuar ocreet rundamentar drowth rund			Massachusetts Mutual Life Insurance	. Omici sirip	2.300	, MINIETO		
0000			40 4740000		0000040000	00	Manadhahard Caland Mid Co. Value Found	MA	NIA		0	00.000	MMLIC		
0000			42-1710935		0000916053	υ ψ	MassMutual Select Mid-Cap Value Fund	MA	NIA	Company	Ownership	23.800	. MINIL I C	[
					1	I	MassMutual Select Small Capital Value Equity			Massachusetts Mutual Life Insurance	1		l		
0000			02-0769954		0000916053	0Q	Fund	MA	NIA	Company	. Ownership.	0.000	MMLIC		
						I				Massachusetts Mutual Life Insurance			1		
0000			04-3584140		0000916053	0Q	MassMutual Select Small Company Value Fund	MA	NIA	Company	Ownership	10.900	MMLIC		
		1		1	1	1	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance			1		
0000			82-3347422		0000916053	00	2005 Fund	MA	NIA	Company	Owner ship.	7.200	MMLIC		
			OL 00 // 722				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance		, .200	1		
0000			82-3355639		0000916053	00	2010 Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
0000			02-3300039		00009 10033	UU		MA	NIA		Ownership	0.000	, WINIL TO		
						Las	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	l		l		
0000			82-3382389		0000916053	00	2015 Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
						I	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance			1		
0000			82-3396442		0000916053	0Q	2020 Fund	MA	NIA	Company	Ownership	0.000	. MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3417420		0000916053	00	2025 Fund	MA	NIA	Company	Ownership.	0.000	MMLIC		L
			1				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance			1		I
0000			82-3430358		0000916053	00	2030 Fund	MA	NIA	Company	Ownership.	0.000	MMLIC		
			02-0400000		0000310003	Out	MassMutual Select T. Rowe Price Retirement	mл	NIV	Massachusetts Mutual Life Insurance	. Tomici sitip		, mm=10		
0000			00 0400007		0000040050	00		144	ALL A		0	0.000	INN 10		
0000			82-3439837		0000916053	ou	2035 Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3451779	.	0000916053	0Q	2040 Fund	MA	NIA	Company	. Ownership	0.000	MMLIC		l

SCHEDULE Y

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Туре	If		1	
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Y/N)	*
	•					,	MassMutual Select T. Rowe Price Retirement		,	Massachusetts Mutual Life Insurance	,	Ŭ			
0000			82-3472295		0000916053	00	2045 Fund	MA	NI A	Company	Owner ship	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	•				
0000			82-3481715		0000916053	00	2050 Fund	MA	NI A	Company	Owner ship	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
0000			82-3502011		0000916053	00	2055 Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
			00 0505445		222224225		MassMutual Select T. Rowe Price Retirement	l		Massachusetts Mutual Life Insurance	l		l	1	
0000			82-3525148		0000916053	00	2060 Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
0000			00 0500044		0000916053	00					0 1:	0.000	MMLIC		
0000			82-3533944		0000916053	00	Balanced Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
0000			40-4237030				minic Series international Equity Fund	WA	NIA	Massachusetts Mutual Life Insurance	owner simp	0.000	WWLIG		
0000			47-3517233				MML Series II Asset Momentum Fund	MA	NIA	Company	Ownership.	100.000	MMLIC		
			0011200				mine doll too 11 Nooct monoritain 1 and			Massachusetts Mutual Life Insurance	omici dirip		. mmL10		
0000			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Company	Owner ship.	0.000	MMLIC		
							,			Massachusetts Mutual Life Insurance					
0000			47-3544629				MML Series II Equity Rotation Fund	MA	NIA	Company	Ownership.	95 . 100	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			47-3559064				MML Series II Special Situations Fund	MA	NI A	Company	Owner ship	97.300	. MMLIC		
										Massachusetts Mutual Life Insurance					
0000			27-1933389		0000916053	00	MassMutual RetireSMART 2035 Fund	MA	NIA	Company	Ownership	3.000	MMLIC		
0000			07 1000700		0000010000	00	March Arm Datin CHAPT COAF Fund		NII A	Massachusetts Mutual Life Insurance	0	0.000	MM 10	1	
0000			27-1932769		0000916053	UQ	MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	8.000	MMLIC		
. 0000			46-3289207		0000916053	00	MassMutual RetireSMART 2055 Fund	MA	NIA		Ownership	24.100	MMLIC	1	
0000			40-320920/		86001 80000	υ ų	massmutuai netiiesmasi 2000 runu	MA	NIA	Company	Owner Strip	24.100	. WWWLIC		
0000			47-5326235		0000916053	00	MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership	53.100	MMLIC	1	
,0000			0020200				The state of the s			Massachusetts Mutual Life Insurance	ор.				
0000			45-1618155		0000916053	00	MassMutual 20/80 Allocation Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
										Massachusetts Mutual Life Insurance	F]		
0000			45-1618222		0000916053	00	MassMutual 80/20 Allocation Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
										Massachusetts Mutual Life Insurance				1	
0000			03-0532464		0000916053	00	MassMutual RetireSMART In Retirement Fund	MA	NIA	Company	Ownership	1.700	MMLIC		
						Ĺ				Massachusetts Mutual Life Insurance				1	
0000			45-1618262		0000916053	00	MassMutual 40/60 Allocation Fund	MA	NIA	Company	Ownership	0.000	MMLIC		ļ
			15 1010015		222224225			l		Massachusetts Mutual Life Insurance	l		l	1	
0000			45-1618046		0000916053	00	MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership	0.000	MMLIC		
								1						1	l

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.

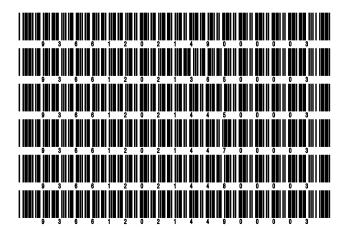
	_	Response
1. W	Vill the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2. W	Vill the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
	Vill the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and lectronically with the NAIC?	NO NO
4. W	Vill the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of omicile and electronically with the NAIC?	YES
	Vill the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be led with the state of domicile and electronically with the NAIC?	NO
	Vill the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average larket Value) be filed with the state of domicile and electronically with the NAIC?	NO
	Vill the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) e filed with the state of domicile and electronically with the NAIC?	NO
se	Vill the Life PBR Statement of Exemption be filed with the state of domicile by July 1st and electronically with the NAIC with the econd quarterly filing per the Valuation Manual (by August 15)? (2nd Quarter Only) The response for 1st and 3rd quarters should be I/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]



OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Assets Line 25

Addition	idi Wille-ilis idi Assets Lilie 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 Assets	46,336	24,836	21,500	62,395
2597.	Summary of remaining write-ins for Line 25 from overflow page	46,336	24,836	21,500	62,395

Additional Write-ins for Summar	y of Operations Line 8.3
---------------------------------	--------------------------

Additional Write the for Cummary of Operations Elife 6.6			
	1	2	3
	Current Year	Prior Year	Prior Year Ended
	To Date	To Date	December 31
08.304. Miscellaneous income	25	654	2,987
08.305. Miscellaneous accrual			21,751
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	25	654	24,738

SCHEDULE A - VERIFICATION

Real Estate

		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year		
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.2 Additional investment made after acquisition		
3.	Current year change in encumbrances		
4.	Total gain (loss) on disposals		
5.	Deduct amounts received on disposals		
6.	Total foreign exchange change in book/adjusted rying		
7.	Deduct current year's other than temporary impailment reducitied		
8.	Deduct current year's depreciation		
9.	Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)		
10.	Deduct total nonadmitted amounts		
11.	Statement value at end of current period (Line 9 minus Line 10)		

SCHEDULE B - VERIFICATION

Mortgage Loans

	wortgage Loans	1	2
		I	Prior Year Ended
		Year to Date	December 31
			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 lest parallel amitme lesses		
9.	Total foreign exchange change in book value/recorded investment excurse accrued atterest		
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

	Other Long-Term Invested Assets		
		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year	18,605,384	18,826,241
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		0
	2.2 Additional investment made after acquisition		0
3.	Capitalized deferred interest and other		0
4.	Accrual of discount		
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	172 , 104	220,856
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)	18,433,280	18,605,384
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)	18,433,280	18,605,384

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	2,366,835,759	2,439,754,316
2.	Cost of bonds and stocks acquired	182,483,622	408,757,622
3.	Accrual of discount	3,442,774	6,692,217
4.	Unrealized valuation increase (decrease)	(367,465)	(895,408)
5.	Total gain (loss) on disposals	1,846,231	3,437,487
6.	Deduct consideration for bonds and stocks disposed of	309,872,993	487,527,579
7.	Deduct amortization of premium	1,493,820	2,486,175
8.	Total foreign exchange change in book/adjusted carrying value		0
9.	Deduct current year's other than temporary impairment recognized	16,730	4,492,010
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees	2,634,507	3,595,289
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		0
13.	Statement value at end of current period (Line 11 minus Line 12)	2,245,491,885	2,366,835,759

SCHEDULE D - PART 1B

Showing the Acquisitions, Dispositions and Non-Trading Activity

During the Current Quarter for all Bonds and Preferred Stock by NAIC Designation

	1	2	3	4	5	6	7	8
	Book/Adjusted Carrying Value	Acquisitions	Dispositions	Non-Trading Activity	Book/Adjusted Carrying Value	Book/Adjusted Carrying Value	Book/Adjusted Carrying Value	Book/Adjusted 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)		19,998,738	103,801,854	, , , , ,	1,483,363,325	1,422,466,563	1,350,715,246	1,456,242,634
2. NAIC 2 (a)		386,946,737	333,711,672	(10,548,718)	885,374,206	955,305,748	997,992,095	862,869,586
3. NAIC 3 (a)	29,202,124		716,753	1,886,960	33,281,795	29,202,124	30,372,331	35,409,231
4. NAIC 4 (a)	8,280,773		259,170	(2,669,172)	8, 137, 197	8,280,773	5,352,431	6, 182, 034
5. NAIC 5 (a)	2,141,586		(59,013)	(1,456,700)	2,301,342	2,141,586	743,899	760,718
6. NAIC 6 (a)	0		3,999	1,471,816	6,633	0	1,467,817	7,714
7. Total Bonds	2,417,396,794	406,945,475	438,434,435	735,985	2,412,464,498	2,417,396,794	2,386,643,819	2,361,471,917
PREFERRED STOCK								
8. NAIC 1	2,849,168			(22,315)	2,871,240	2,849,168	2,826,853	2,893,069
9. NAIC 2	4,000,000				4,000,000	4,000,000	4,000,000	4,000,178
10. NAIC 3	0				0	0	0	0
11. NAIC 4					0	0	0	0
12. NAIC 5					0	0	0	0
13. NAIC 6					0	0	0	0
14. Total Preferred Stock		0	0	(22,315)	6,871,240	6,849,168	6,826,853	6,893,247
15. Total Bonds and Preferred Stock	2.424.245.962	406.945.475	438.434.435	713,670	2,419,335,738	2,424,245,962	2,393,470,672	2,368,365,164

(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 Book/Adjusted Carrying Value	2 Par Value	3 Actual Cost	4 Interest Collected Year-to-Date	5 Paid for Accrued Interest Year-to-Date
9199999 Totals	38,990,071	XXX	38,978,165	0	0

SCHEDULE DA - VERIFICATION

Short-Term Investments

		1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	2,999,997	0
2.	Cost of short-term investments acquired	48,972,790	5,020,317
3.	Accrual of discount	17,281	0
4.	Unrealized valuation increase (decrease)		0
5.	Total gain (loss) on disposals		0
6.	Deduct consideration received on disposals	12,999,997	2,000,000
7.	Deduct amortization of premium		20,320
8.	Total foreign exchange change in book/adjusted carrying value		0
9.	Deduct current year's other than temporary impairment recognized		0
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	38,990,071	2,999,997
11.	Deduct total nonadmitted amounts		0
12.	Statement value at end of current period (Line 10 minus Line 11)	38,990,071	2,999,997

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)	18 712 78/
2.	Cost Paid/(Consideration Received) on additions	
3.	Unrealized Valuation increase/(decrease)	• •
3. 4.	SSAP No. 108 adjustments	
4 . 5.	Total gain (loss) on termination recognized	
6.	Considerations received/(paid) on terminations	
7.	Amortization	
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)	
11.	Deduct nonadmitted assets	
12.	Statement value at end of current period (Line 10 minus Line 11)	
	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	
2.2	3.14 Section 1, Column 18, prior year	
3.2	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 no use	
	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)

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

7. Deduct total nonadmitted amounts ...

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open **N O N E**

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open ${f N} \ {f O} \ {f N} \ {f E}$

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.	15,293,974	
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)	15	5,293,974
4.	Part D, Section 1, Column 6	15,293,974	
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	15,293,974	
8.	Part B, Section 1, Column 13		
9.	Total (Line 7 plus Line 8)	15	5,293,974
10.	Part D, Section 1, Column 9	15,293,974	
11.	Part D, Section 1, Column 10	0	
12	Total (Line 9 minus Line 10 minus Line 11)		0
		Potential Exposure Check	(
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)

	(Cash Equivalents)	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	90,065,184	26,295,267
2.	Cost of cash equivalents acquired	1, 152, 440, 062	378,278,326
3.	Accrual of discount	31,616	0
4.	Unrealized valuation increase (decrease)		0
5.	Total gain (loss) on disposals		
6.	Deduct consideration received on disposals	1, 101, 917, 043	314,508,713
7.	Deduct amortization of premium		0
8.	Total foreign exchange change in book/adjusted carrying value		0
9.	Deduct current year's other than temporary impairment recognized		0
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	140,619,818	90,065,184
11.	Deduct total nonadmitted amounts		0
12.	Statement value at end of current period (Line 10 minus Line 11)	140,619,818	90,065,184

Schedule A - Part 2 - Real Estate Acquired and Additions Made **NONE**

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 **NONE**

OI AUI T	D 1 101 1		
Show All Long-Term	Bonds and Stock	: Acquired During t	the Current Quarter

			OHOW AH L	cong-renn bonds and Stock Acquired Duning the Current Quarter					
1	2	3	4	5	6	7	8	9	10
									NAIC
									Designation,
									NAIC
									Designation
									Modifier
									and
									SVO
					N1			Delta Control	
					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
12641P-AR-5	CSMC 2009-R 2A6 - CMO/RIMBS		08/01/2021	Direct		0	18		1.D FM
12641Q-AJ-1	CSMC 2009-7R 4A5 - CMO/RMBS		08/01/2021	Direct		0	875		5.B FM
12641Q-AS-1	CSMC 2009-7R 5A5 - CMO/RMBS		08/01/2021	Direct		0	785		1.D FM
12641Q-CZ-3 45254N-NT-0	CSMC 2009-7R 134 - CMO/RMBS		09/01/2021 08/25/2021	Direct			911		1.D FM 1.D FM
45254N-N1-U	JMAC 2008-R2 2A3 - CMO/RMBS		08/25/2021	Direct			620 1,644		1.D FM
472321-AK-4	JMAC 2008-R2 3A2 - CMO/FMBS		08/01/2021	Direct		 n	9,958		1.D FM
47232D-AL-6	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021	Direct		n	1,760		1.D FM
47232D-AV-4	JEFFERIES RESECURITIZATION TRUST 2009-R5		08/01/2021	Direct		0	1,356		1.D FM
47232D-CY-6	JEFFERIES RESECURITIZATION TRUST 2009-R5		08/01/2021	Direct		0	1,258		1.D FM
47232D-DB-5	JEFFERIES RESECURITIZATION TRUST 2009-R5		08/01/2021	Direct		0	637		1.D FM
47232D-DN-9	JEFFERIES RESECURITIZATION TRUST 2009-R5		08/01/2021	Direct		0	617	0	1.D FM
47232V-CP-5	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Direct		0	95		1.D FM
47232V-CU-4	JEFFERIES RESECURITIZATION TRUST 2009-R4		07/01/2021	Direct		0	36		1.D FM
47232V-GR-7	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Direct		0	2,858		1.D FM
47233D-AB-7	JEFFERIES RESECURITIZATION TRUST 2009-R1		09/01/2021	Direct		0	115,014		1.D FM
585495-AA-2	MELLO 21MTG1 A1 - CMO/RMBS		07/26/2021	Bank of America Merrill Lynch		0	0	0	1.A FE
	otal - Bonds - Industrial and Miscellaneous (Unaffiliated)					0	138,441	0	XXX
	I - Bonds - Part 3					0	138,441	0	XXX
	I - Bonds - Part 5					XXX	XXX	XXX	XXX
8399999. Tota	I - Bonds					0	138,441	0	XXX
8999997. Tota	I - Preferred Stocks - Part 3					0	XXX	0	XXX
8999998. Tota	I - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX
8999999. Tota	I - Preferred Stocks					0	XXX	0	XXX
9799997. Tota	I - Common Stocks - Part 3					0	XXX	0	XXX
9799998. Tota	I - Common Stocks - Part 5					XXX	XXX	XXX	XXX
9799999. Tota	I - Common Stocks					0	XXX	0	XXX
9899999. Tota	I - Preferred and Common Stocks					0	XXX	0	XXX
9999999 - Tota	als					0	XXX	0	XXX

0	
Show All Long-Term Ronds and Stock Sold	Redeemed or Otherwise Disposed of During the Current Quarter

				Show All Lo	ng-Term Bo	onds and Sto	ck Sold, Red	deemed or (Otherwise	Disposed of	of During t	he Current	Quarter							
1	2	3 4	5	6	7	8	9	10		hange In Boo				16	17	18	19	20	21	22
									11	12	13	14	15							NAIC
																				Desig-
																				nation,
																				NAIC
												Total	Total							Desig-
											Current	Change in	Foreign					Bond		nation
											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			Dividends	Con-	SVO
CUSIP				Number of				Adjusted	Valuation	(Amor-	Impairment	t Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For- Disp		Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	, ,	(Loss) on	During	Maturity	strative
ification	Description	eign Da		Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	FN 511797 - RMBS				185	185 407	185	182	0		0		0	185	0	0	0	/	05/01/2031 . 01/01/2035 .	. 1.A
	US INTERNATIONAL DEVELOPMENT FINANCE COR				63,046	63,046	63,046	63,059	0	(13)	0	(13)		63,046	0	0	0	2,799	02/27/2027 .	1.A
	US INTERNATIONAL DEVELOPMENT FINANCE COR				28,571	28,571	28,571	28,572	0	0	0	0		28,571	0	0	0		12/15/2030 .	1.A
0599999. S	Subtotal - Bonds - U.S. Governments	-	<u> </u>		92,210	92,210	92,217	92,109	0	102	0	102	0	92,210	0	0	0	3,592	XXX	XXX
452152-GR-6					400,000	400,000	399,884	399,986	0	14	0	14		400,000	0	0	0	24,800	07/01/2021 .	2.C FE
	OREGON SCH BRDS ASSN				1,000,000	0 1,000,000		0 1,000,000	0	(17,546)	0	(17,546)	0	(17,546)	0 n	17,546	17,546	0	06/30/2028 . 08/01/2021 .	1.C FE
	WASHINGTON ST			-	2.000,000	2.000,000	2.000,000	2.000,000	0	0	 N	0	0	2.000,000	0	0	0		08/01/2021 .	
	Subtotal - Bonds - U.S. States, Territo				3,400,000	3,400,000	3,399,884	3,399,986	0	(17,533)	0	(17,533)	0	3,382,454	0	17,546	17,546	142,460	XXX	XXX
	AMCEST 2007 A A28 - RMBS				70,594	70,594	73,884	72,411	0	(1,817)	0	(1,817)		70,594	0	0	0	4,052	01/15/2028 .	1.F FE
196479-F9-5	COLORADO HSG & FIN AUTH - MBS				111,981	111,981	115,316	114,462	0	(2,480)	0	(2,480)		111,981	0	0	0	2,822	03/01/2048 .	1.A FE
	FH RE6008 - RMBS FH RE6097 - RMBS				355, 122 77, 786	355, 122 77, 786	361,059	359,726	0	(4,604)	0	(4,604)	0	355, 122	0	0	0	8,272 543	11/01/2049 . 05/01/2051 .	- 1.A
	FH RE6097 - RMBS				127,058	127,058		0	0	(3,057)	0	(3,057)	0	127,058		0	0	1. 152	05/01/2051 . 05/01/2051 .	I.A
	FH RE6094 - RMBS				202,107	202, 107	200,212	0	0	1,895	0	1,895		202, 107	0	0	0	1,734	04/01/2051 .	
	FN BK8442 - RMBS				112,505	112,505	112,786	0	0	(281)	0	(281)		112,505	0	0	0	1,071	01/01/2051 .	1.A
	FN B04638 - RMBS				100,848	100,848	101,022	100,975	0	(127)		(127)		100,848	0	0	0	1,933	11/01/2049 .	1.A
	FN CA4011 - RMBS FN CA4613 - RMBS				94,366	94,366 286,718			0	(1,113)		(1, 113)		94,366	0 0	0	0	2, 153	08/01/2049 . 11/01/2049 .	. 1.A
	FN MA4319 - RMBS	09/01/			189.054	189,054	188.359	290, 136	0	(3,436)	0	(3,436)	0	189.054	0	0	0	1.634	04/01/2049 .	1.A
454624-U5-4	INDIANA BD BK REV				340,000	340,000	347,640	342,676	0	(781)	0	(781)	0	341,895	0	(1,895)	(1,895)	18,666	01/15/2024 .	1.B FE
462467-NW-7	IOWA FIN AUTH SINGLE FAMILY MTG REV	07/01/			490,000	490,000	490,000	490,000	0	0	0	0	0	490,000	0	0	0	8,289	02/01/2042 .	1.A FE
	KENTUCKY HSG CORP HSG REV				1,500,000	1,500,000	1,500,000	1,500,000	0	0	0	0	0	1,500,000	0	0	0	52,020	07/01/2021 .	1.A FE
	MARYLAND ST CMNTY DEV ADMIN DEPT HSG & C MARYLAND ST TRANSN AUTH LTD OBLIG REV				115,000	385,000	385,000	384,991	0	(359)	0	(359)	0	115,750		(750)	(750)	12,282	09/01/2037 . 07/01/2022 .	1.0 FE
	MINNESOTA ST HSG FIN AGY HOMEOWNERSHIP F				116,244	116,244	116,244	116,244	0	0	0	0	0	116,244	0	0	0	2,560	03/01/2048 .	1.A FE
	MINNESOTA ST HSG FIN AGY HOMEOWNERSHIP F				143,963	143,963	143,963	143,963	0	0	0	0	0	143,963	0	0	0	3,512	01/01/2049 .	1.A FE
	NEW MEXICO MTG FIN AUTH				25,000	25,000	25,000	25,000	0	0	0	0	0	25,000	0	0	0	423	09/01/2040 .	1.B FE
	NEW YORK N Y CITY HSG DEV CORP MULTIFAMI NEW YORK STATE DORMITORY AUTHORITY				2, 194	2,194 2,340,000	2, 194 2,323,597	2,194	0	1. 183	0	1, 183	0	2,194	0	0	0	71,370	06/15/2036 . 08/15/2021 .	1.0 FE 1.B FE
658207-MA-0	NORTH CAROLINA HSG FIN AGY HOMEOWNERSHIP					335.000			0	0	0	0	0		0	0	0	13.498	01/01/2030 .	1.B FE
677377-2P-7	OHIO HSG FIN AGY SINGLE FAMILY MTG REV		021 Call @ 100.00		65,000	65,000	65,000	65,000	0	0	0	0	0	65,000	0	0	0	1, 148	11/01/2041 .	1.A FE
870000-HJ-8	SWARTHMORE BORO AUTH PA COLLEGE REV			.	1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0	0	1,000,000	0	0	0	31,000	09/15/2021 .	1.A FE
88275F-NU-9 882806-CJ-9	TEXAS ST DEPT HSG & CMNTY AFFAIRS SINGLE				20,000	20,000	20,000	20,028	0	(4)	0	(4)	ō	20,024	······ō	(24)	(24)	419	09/01/2039 .	
882806-CJ-9 882806-CK-6	TEXAS TECH UNIV REVS IAM COML PAPER NTS TEXAS TECH UNIV REVS IAM COML PAPER NTS				700,000 500,000	700,000 500.000	700,000 500,000	700,000	0 N	n	 N	n	0 n	700,000	n	n	U	21,490	08/15/2021 . 08/15/2022 .	1.B FE 1.B FE
92812U-Q3-5	VIRGINIA ST HSG DEV AUTH COMWLTH MTG - M				77,604	77,604	77,604		0	(1)	0	(1)	0	77,604	0	0	0	2, 198	12/25/2043	
92812U-Q4-3	VIRGINIA ST HSG DEV AUTH COMWLTH MTG - M		021 Paydown		44,206	44,206	44,206	44,206	0	0	0	0	0	44,206	0	0	0	1,044	10/25/2037 .	1.A FE
92812U-Q6-8	VIRGINIA ST HSG DEV AUTH COMMUTH MTG - M				60,246		60,246	60,238	0	8	0		0	60,246	0	0	0	1,214	06/25/2041 .	1.A FE
92812U-Q7-6 92813T-EE-6	VIRGINIA ST HSG DEV AUTH COMWLTH MTG				71,039 45.568	71,039 45,568	71,039 45.568	71,039 45.544	0 n	0	0 n	0	0 n	71,039 45.568	0 n	0 n	0 n	1,412	10/25/2049 . 08/25/2042 .	1.A FE 1.B FE
	WASHINGTON BIOMEDICAL RESH FACS 3 WASH L				1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0	0	1,000,000	0	0	0	52,310	07/01/2021 .	
93976A-AJ-1	WASHINGTON ST CONVENTION CTR PUB FACS DI				1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0		1,000,000	0	0	0	54,210	07/01/2021 .	2.C FE
	Subtotal - Bonds - U.S. Special Reven				12,104,204	12,104,204	12, 123, 505	11,411,865	0	(13,749)	0	(13,749)	0	12,106,863	0	(2,659)	(2,659)	405,906	XXX	XXX
	AASET 2017-1 A - ABS				79,590 21,792				0	0	0	0	0		0	0	0	2,117 504	05/16/2042 . 10/16/2039 .	2.B FE 1.G FE
	APS 2016-1 1A - CMO/RMBS			-					0 n	2,670	 n	2,670	0			n	U	504	10/16/2039 . 07/27/2057 .	1.6 FE
	ARLFR 1406 A1 - RMBS				418,674	418,674	406,267	418,674	0	0	0	0	0	418,674	0	0	0	7, 131		
00214M-AB-9	ARLFR 1406 A2 - RMBS		021 Paydown		3,000,000	3,000,000	2,998,301	2,999,407	0	593	0	593		3,000,000	0	0	0	69,475	06/15/2044 .	1.F FE
	AREIT 2019-CRE3 A - CDO/CMBS			.	135,218	135,218	135,218	135,218	0	0	0	0	0	135,218	0	0	0	930	09/16/2036 .	
	AASET 2020-1 A - ABS				25,300	25,300	25,299	25,300	0	0	0	0	0	25,300	0	0	0	495 71	01/17/2040 . 01/17/2040 .	1.G FE
IUU4JJUTNNTJ	INDUL: 4040 T A T ADD		.∪∠ı ı ayu∪wıı		L								1							

				Show All Lo	ng-Term Bo	onds and Sto	ck Sold, Red	deemed or C	Otherwise [Disposed (of During t	he Current	Quarter							
1	2	3 4	5	6	7	8	9	10			ok/Adjusted			16	17	18	19	20	21	22
									11	12	13	14	15							NAIC
																				Desig-
																				nation,
																				NAIC
												Total	Total							Desig-
											Current	Change in	Foreign					Bond		nation
											Year's	Book/	Exchange	Book/				Interest/		Modifier
								Prior Year		Current	Other Than		Change in	Adjusted	Foreign			Stock	Stated	and
								Book/	Unroglized						Exchange	Realized		Dividends	Con-	SVO
CUSIP				Number of					Unrealized	Year's	Temporary		Book	Carrying			Total Cain			-
		F Di	Name -	Number of	0		A =4=1	Adjusted	Valuation	(Amor-	Impairment		/Adjusted	Value at	Gain	Gain	Total Gain		tractual	Admini-
Ident-	D	For- Disposal		Shares of	Consid-	D	Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(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
	ACCR 2006-1 A4 - RMBS				104,616	104,616	91,375	98,847	0	5,769	00	5,769	0	104,616	0	0	0		04/25/2036 .	1.D FM
	ADMSO 181 A - ABS		Paydown		9,302 661	9,302 661	9,352 618	9,339		(36)		(36)	0	9,302		0		298	11/16/2048 . 06/25/2035 .	1.F FE
	AMBAC LSNI LLC		Paydown		53.948	53,966	54, 101	53,943		49		49		53.948				57	02/12/2023 .	
	AMERICAN AIRLINES 2015-2 PASS THROUGH TR		Paydown		47,381	47,381	47,381	47,392	0	(11)	0	(11)	0	47,381	0	0	0	1,706		
	AMERICAN AIRLINES 2013-2 PASS THROUGH TR	07/15/2021	Paydown		239,980	239,980	239,980	240,052	0	(71)		(71)	0	239,980		0		11,879	07/15/2024 .	
02660L-AA-8	AHMA 2006-4 A11 - RMBS				10 , 194	10 , 194	6,768	9,963	0	231	0	231	0	10, 194	0	0	0	20		
	AH4R 2014-SFR2 A - RMBS		Paydown		4,429	4,429	4,428	4,424	0	4	0	4	0	4,429	0	0	0	113	10/17/2036 .	
	AH4R 2014-SFR3 A - RMBS		Paydown		15,466	15,466	15,601	15,511	0	(46)	0	(46)		15,466	0	0	0	375	12/18/2036 .	
	AHAR 2015-SFR1 A - RMBS				12,113	12, 113	12,113	12, 100	······································	13	0	13	0	12,113	F	0	ō	284	04/17/2052 .	1.A FE
	AH4R 2015-SFR2 A - RMBS		Paydown	 	2,277 2,000,000	2,277 2,000,000	2,277 1,994,720	2,276 1,999,577	0	1	0	1	0	2,277	0	0	ļ	56	10/17/2052 . 09/20/2021 .	1.A FE
	ANCHE 5R BR - CD0		Maturity @ 100.00 Paydown		1,600,000	1,600,000	1,600,000	1,600,000		423		423		1,600,000				44,933	04/25/2036 .	1.G FE
	AQFIT 19A A - ABS		Paydown		72,604	72,604		72,594	0	10	0	10	0		0	0	0	1,516	07/16/2040 .	1.F FE
	AQFIT 2020-A A - ABS	09/17/2021	Paydown		169,715	169,715	169,683	169,684	0	31	0	31	0	169,715	0	0	0	2, 150	07/17/2046 .	1.F FE
04621W-AC-4	ASSURED GUARANTY US HOLDINGS INC		Call @ 100.00			340,000	339,303	339,719	0	55	0	55	0	339,775	0	225	225	31,447	07/01/2024 .	2.A FE
	BDS 2019-FL3 B - CD0		Paydown		1,000,000	1,000,000	1,004,063	1,001,143	0	(1,143)	0	(1, 143)	0	1,000,000	0	0	0	16,048	01/15/2036 .	
	BDS 2019-FL4 A - CD0	C09/17/2021	Paydown		1, 155,060	1, 155, 060	1,076,240	826,687	0	50,845	0	50,845	0	1, 155, 060	0	0	0	10,625		
	BFNS 191 A - CD0	C07/12/2021	Paydown		3,983,010	3,983,010	3,963,095	3,958,877	0	24, 133	0	24, 133	0	3,983,010	0	0	0	90,388	03/25/2030 .	1.B FE
	BCAP 2010-RR12 1A9 - CMO/RMBS		Paydown		20,888	18,839	16,505 40,661	20,592		296	0	296	0	20,888	0	0		359		
	BSPRT 2018-FL4 A - CD0		Paydown		223,273	223,273	223,273	223,252		2,992		2,992		223,273	0			1.740	09/17/2035 .	1.0 FM
	BSPRT 2019-FL5 A - CMBS		Paydown		526,240	526,240	526,412	526,407	0	(167)	0	(167)	0	526,240	0	0	0	4,633	05/15/2029 .	
		08/17/2021	Paydown		83.971				0	0		0	0		0	0	0	10,552	11/18/2048 .	1.D FE
			Paydown		90,741	92, 191	75, 188	88,009	0	2,732	0	2,732	0	90,741	0	0	0	3,418	03/25/2036 .	1.D FM
			Paydown		30,433		29,425	29,279	0	1, 154	0	1, 154	0	30,433	0	0	0	528	02/25/2035 .	1.D FM
	BOAMS 2005-A 2A2 - CMO/RMBS		Paydown		26,629	26,629	25,930	26,064	0	565	0	565	0	26,629	0	0	0	462	02/25/2035 .	1.D FM
	BOAMS 2005-8 A9 - CMO/RMBS		Paydown		9,708 48,290	10,085	7,811 44,212	9,632 47,077	0	76	0		0	9,708	0	0	0	349	09/25/2035 . 10/25/2035 .	3.B FM
	BOAMS 2005-1 1A1 - CMO/RMBS		Paydown		48,290	48,533 49,945	44,212	47,077		1,213	0	1,213	0	48,290		0		807		
	BOAMS 2005-J 2A3 - CMO/RMBS		Paydown		447	486	475	446	0	1	0	1	0	447	0	0	0	8		
	BAFC 2007-1 T1B - RMBS	09/01/2021	Paydown		7,187	7,193	6,280	7,035	0	152	0	152	0	7, 187	0	0	0		01/25/2037	1.D FM
05951U-AC-5	BAFC 2006-8T2 A2 - CMO/RMBS		Paydown	ļ	526	538	413	514	0	12	0	12	0	526	0	0	0	17	10/25/2036 .	1.D FM
	BAFC 2007-C 1A2 - CMO/RMBS		Paydown		27,202	28,999	26,518	27,005	0	197	0	197	0	27,202	0	0	0	574	05/20/2036 .	1.D FM
	BAFC 2007-4 A1B - RMBS		Paydown		1,784	1,784	588	1,742	0	42	0	42	0	1,784	0	0	0	58	05/26/2037 .	1.D FM
	BANC 2019-CRE6 A - CMBS		Paydown		263,253	263,253	227,714	240,861	ļ	22,392	ļ	22,392	0	263,253	}ō	0	ł	1,927	09/17/2036 .	1.A FE
	BAFC 2010-R2 1A3 - CMO/RMBS		Paydown		45,350 30,428	40,160	25,410	44,707 29.078	0	643	0	643	0	45,350	0	0		1,544 587	08/26/2037 . 07/26/2035 .	1.D FM
063904-AA-4		09/01/2021	Call @ 100.00		3,000,000	3,000,000	3,000,000	3,000,006	n	(6)	١	(6)	0	3,000,000	n	0 n	n	165,000	07/01/2026 .	2.A PL
	BAPTIST HEALTH SOUTH FLORIDA INC	08/15/2021			2,000,000	2,000,000	2,000,000	2,000,000	0	0	0	0	0	2,000,000	0	0	0	91,800	08/15/2021 .	
	BSARM 2004-5 2A - CMO/RMBS		Paydown		9,821	9,821	9,864	9,817	0	4	0	4	0	9,821	0	0	0	216	07/25/2034 .	
07384Y-KF-2	BSABS 2003-AC4 A - RMBS		Paydown		26,817	26,817	27 , 102	26,845	0	(28)	0	(28)	0	26,817	0	0	0	957	09/25/2033 .	1.D FM
	AMCOR FLEXIBLES NORTH AMERICA INC	07/15/2021	Call @ 100.00		1,000,000	1,000,000	993,530	999,428	0	387	0	387	0	999,816	0	184	184	33,750	10/15/2021 .	
	BJETS 191 A - ABS		,	 	69,620	69,620	69,617	69,619	0	0	0	0	0	69,620	0	0	0	1,767		
	BJETS 2020-1 A - ABS		Paydown		56,698	56,698	56,697	56,697	0	1	ļō	ļ1	ļ	56,698	0	0	ļō	1, 127	11/15/2035 .	
	CAUTO 2014-1 A - ABS		Paydown		915,089 10,548	915,089 10,548	914,539 10,545	915,030 10,547	0	58 1	0	58	0	915,089	0 0	0		22,417	10/17/2044 . 04/15/2047 .	1.E FE 1.E FE
	CFMT 2020-HB4 A - RMBS		Paydown		339,878	339,878	339,878	339,878	n	0	0		0	339,878	0	0 n	n	299	12/26/2030 .	1.E FE
	CWHL 2006-HYB4 2A1 - CMO/RMBS		Paydown		909	945	393	879	0	30	0	30	0	909	0	0	0	2, 130	06/20/2036 .	1.D FM
12563L-AS-6	CLIF 203 A - ABS		Paydown		30,833	30,833	30,827	30,827	0	6	0	6	0	30,833	0	0	0	423	10/18/2045 .	
12564E-AA-0	CIM 2021-J2 A1 - CMO/RMBS	09/01/2021			247,696	247,696	250,482	0	0	(2,787)		(2,787)	0	247,696	0	0	0	2,782	04/25/2051 .	1.A FE
	CIM 2021-J1 A1 - CMO/RMBS		Paydown		93,736	93,736	96 , 196	0	0	(2,461)		(2,461)	0	93,736	0	0	0	1,256	03/25/2051 .	1.A FE
	COMM 2015-LC21 A3 - CMBS		Paydown		221	221	222	222	0	(1)		(1)	0	221	0	0	0	5	07/10/2048 .	
12632Q-AW-3	COMM 2014-CCRE18 A4 - CMBS		Paydown		6,317	6,317	6,380	6,333	0	(16)	0	(16)	J0	6,317	0	0	0	168	07/17/2047 .	1.U FM

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Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on		(Loss) on	During	Maturity	strative
ification	Description	eian	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)		nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	CSMC 2009-R A4 - CMO/RMBS	oigi.	.09/01/2021	Pavdown	Otook	27,434	27,434	4,054	25,541	(Decircuse)	1,893	0	1,893	_	27.434	0	0	0	1, 107	10/26/2038 .	1.D FM
	CSMC 2009-R A5 - CMO/RMBS		.09/30/2021			0	0	0	(262)	0	0	0	0	0	(262)	0	262	262	0	10/26/2038 .	1.D FM
12641P-AN-4	CSMC 2009-R 2A3 - CMO/RMBS		.09/01/2021	Paydown		33,616	33,616	33,616	33,514	0	102	0	102	0	33,616	0	0	0	1,284	05/29/2035 .	1.D FM
12641P-AR-5	CSMC 2009-R 2A6 - CMO/RMBS		.09/01/2021	Paydown	·	0	535	0	0	0	0	0	0	0	0	0	0	0	22	05/29/2035 .	1.D FM
12641P-BA-1 12641P-BB-9	CSMC 2009-R 4A4 - CMO/RMBS		.08/26/2021	Paydown		11, 156 2,707	11,156 2,707	8,580	9,284	0	1,873	0	1,873		11, 156	0	0	0	368	11/26/2035 . 11/26/2035 .	1.D FM
12641P-BC-7	CSMC 2009-R 4A6 - CMO/RMBS		.07/01/2021	Pavdown		2,707	2,707	0	0	1	(1)	0	2,703	0	,707 عـــــــــــــــــــــــــــــــــــ	0	0	0	03	11/26/2035 .	4.B FM
12641P-BC-7	CSMC 2009-R 4A6 - CMO/RMBS		.09/01/2021	Paydown		0	110	0	(65)	425	(360)	0	65	0	0	0	0	0	4	11/26/2035 .	5.B FM
12641P-BN-3	CSMC 2009-R 6A3 - CMO/RMBS		.09/01/2021	Paydown		6,228	6,228	6,228	6, 150	0	78	0	78	0	6,228	0	0	0	228	09/27/2038 .	1.D FM
12641P-BR-4	CSMC 2009-R 6A6 - CMO/RMBS		.09/01/2021	Paydown		ō	87	0	1.	0	(1)	0	(1	0	0	0	0	0	3	09/27/2038 .	1.D FM
12641Q-AA-0 12641Q-AF-9	CSMC 2009-7R 3A3 - CMO/RMBS		.09/01/2021 .09/01/2021	Paydown		5, 103	290 5, 103		4,899	0	1	0	1	0		0	0	ļ	11	09/26/2037 . 07/26/2037 .	1.D FM 1.D FM
12641Q-AF-9	CSMC 2009-7R 4A2 - CMO/RMBS		.09/01/2021	Paydown		5, 103	37			0	204	0	204	0	5, 103		0		217	07/26/2037 . 07/26/2037 .	5.B FM
12641Q-AP-7	CSMC 2009-7R 5A2 - CMO/RMBS		.09/01/2021	Paydown		7,517	7,517	7,517	7,452	0	65	0	65	0	7,517	0	0	0	259	11/26/2035 .	1.D FM
12641Q-AS-1	CSMC 2009-7R 5A5 - CMO/RMBS		.09/30/2021			0	0	0	(1,278)	0	0	0	0	0	(1,278)	0	1,278	1,278	0	11/26/2035 .	1.D FM
12641Q-AW-2	CSMC 2009-7R 6A1 - CMO/RMBS		.09/01/2021	Paydown		41,058	41,058	41,058	40,892	0	166	0	166	0	41,058	0	0	0	1,491	09/26/2035 .	1.D FM
12641Q-AY-8	CSMC 2009-7R 6A3 - CMO/RMBS		.09/01/2021	Paydown		0	1,233	189	(1)	0	1	0	1	0	0	0	0	0	50	09/26/2035 .	
12641Q-BF-8 12641Q-BX-9	CSMC 2009-7R 7A4 - CMO/RMBS		.09/25/2021	Paydown		9,309 19,175	9,399 19,176	1,435	8,933 19,176	0	376	0	376		9,309 19.175		0		374 718	12/26/2036 .	
12641Q-DX-3	CSMC 2009-7R 111 - CMO/RMBS		.09/01/2021	Paydown		23,445	23,445	23,445	23,288	0	158	0	158		23,445	0	0	0	816	02/26/2035 .	1.D FM
12641Q-CR-1	CSMC 2009-7R 124 - CMO/RMBS		.08/26/2021	Paydown		4,996	4,996	4,996	4,945	0	51	0	51		4,996	0	0	0	179	01/26/2036 .	1.D FM
12641Q-CS-9	CSMC 2009-7R 125 - CMO/RMBS		.09/01/2021	Paydown		369	370	182	368	0	1	0	1	0	369	0	0	0	14	01/26/2036 .	1.D FM
12641Q-CX-8	CSMC 2009-7R 132 - CMO/RMBS		.09/01/2021	Paydown		14,961	14,961	14,961	15, 167	0	(207)	0	(207		14,961	0	0	0	573	06/26/2037 .	1.D FM
12641Q-DH-2 12641Q-EB-4	CSMC 2009-7R 146 - CMO/RMBS		.09/01/2021 .09/25/2021	Paydown		22,365	22,365	14,295	22,037	0	328	0	328		22,365	0	0		302	04/26/2037 . 03/25/2037 .	1.D FM 1.D FM
12641Q-EE-8	CSMC 2009-7R 172 - CMO/RMBS		.08/24/2021	. rayuowii		47,334	0	1,730	(34)	0	4,000	0	4,636	0	(34)	0	34		0	03/25/2037 .	1.D FM
	CSMC 2009-7R 182 - CMO/RMBS		.09/01/2021	Paydown		50,716	50,716	50,716	50,528	0	188	0	188	0	50,716	0	0	0	573	03/26/2037 .	1.D FM
12641Q-EV-0	CSMC 2009-7R 1A1 - CMO/RMBS		.08/26/2021	Paydown		45, 179	45, 179	45, 179	44,678	0	501	0	501		45, 179	0	0	0	1,576	03/01/2036 .	1.D FM
12641Q-EW-8	CSMC 2009-7R 1A2 - CMO/RMBS		.09/01/2021	Paydown		31,971	31,971	31,971	31,979	0	(8)	0			31,971	0	0	0	1,273	03/26/2036 .	1.D FM
12641Q-EY-4 12641T-AB-2	CSMC 2009-7R 1A4 - CMO/RMBS		.09/30/2021	Paydown				0 63,310	(1,718)	0		0	20,978		(1,718) 83,045	0	1,718	1,718	0 1,414	03/26/2036 . 06/26/2036 .	1.D FM
126411-AB-2	CSMC 2013-IVR1 A2 - CMO/RMBS		.09/01/2021	Paydown		70,488	70,488	65,906	66,696	0	3,792	0	3,792		70,488	0	0	0	1,362	03/25/2043 .	
12646W-AH-7	CSMC 2013-IVR2 A2 - CMO/RMBS		.09/01/2021	Paydown		78,673	78,673	73,510	74,347	0	4,326	0	4,326		78,673	0	0	0	1,554	04/27/2043 .	1.D FM
12647P-AK-4	CSMC 2013-7 A6 - CMO/RMBS		.09/01/2021	Paydown		71,877	71,877		69,468	0	2,409	0	2,409		71,877	0	0	0	1,670	08/25/2043 .	1.D FM
126650-AW-0	CVSPAS NOTES CTF - CMBS		.09/10/2021	Paydown		24, 124	24,124	24, 124	24, 125	0	(1)	0	(1		24, 124	0	0	0		01/11/2027 .	2.B
126670-JP-4 126670-NY-0	CWL 2005-HYB9 1A1 - CMO/RMBS		.09/01/2021	Paydown	}	13,286 20,436	13,286	11,587 978	13,046	0	1,918	0	1,918		13,286	ļ0	0	ļ0	209 597	02/20/2036 . 07/25/2034 .	1.D FM 1.D FM
12667U-NY-U	CWL 2005-16 2A3 - KMBS		.09/01/2021	Paydown				7,904	8,518	 N	1,918	 N	1,918		20,436	n	n	n		04/25/2034 . 04/25/2035 .	1.D FM
12667F-5E-1	CWALT 2005-6CB 1A3 - CMO/RMBS		.09/01/2021	Paydown		19,372	20,926	19,195	19,214	0	158	0	158		19,372	0	0	0	743	04/25/2035 .	1.D FM
12667G-AC-7	CWALT 2005-13CB A3 - CMO/RMBS		.09/01/2021	Paydown		20,690	20,670	17,338	20,091	0	598	0	598	0	20,690	0	0	0	757	. 05/25/2035 .	1.D FM
126694-D5-4	CWHL 2006-HYB2 3A1 - CMO/RMBS		.09/01/2021	Paydown		85,911	89,151	78,086	82,267	0	3,644	0	3,644		85,911	<u>0</u>	0	0	1,693	04/22/2036 .	1.D FM
126694-D7-0 12669D-US-5	CWHL 2006-HYB2 4A1 - CMO/RMBS		.09/01/2021	Paydown		932	1,408 1,443	1,285	879	0	53	0	53	0	932	0	0	0	27 .56	04/22/2036 . 02/25/2033 .	1.D FM 3.B FM
	CWHL 2002-39 A18 - CMO/RMBS		.09/01/2021	Paydown		1,443	1,733	1,430	1,720	0	12	0	12	0	1.733		0	0		02/25/2033 . 09/20/2034 .	1.D FM
	CWHL 2005-15 A8 - CMO/RMBS		.09/01/2021	Paydown		47,317	44,518		47,458	0	(141)	0	(141)	47,317	0	0	0	1,612	08/25/2035 .	
12803P-AB-4	CAJUN 2017-1 A2 - RMBS		.09/24/2021	Paydown		1,760,000	1,760,000	1,746,352	1,755,076	0	4,924	0	4,924	0	1,760,000	0	0	0	93,992	08/20/2047 .	2.C FE
141781-G#-5	CARGILL, INCORPORATED		.07/01/2021	Paydown		0	0	0	0	0	0	0	0		0	0	0	0	3,832	06/30/2023 .	1.F
14576A-AA-0	CARM 201 A1 - RMBS		.09/15/2021	Paydown	}	5,000	5,000	4,998	4,998	0	2	0	2		5,000	0	0	ļ0	67	12/15/2050 .	1.A FE
152314-KJ-8 15672A-AA-0	CXHE 2004-C AF5 - RMBS		.09/01/2021 .07/15/2021	Paydown		73,660 66.208	73,660 66,208		73,477	0	184	0	184		73,660	0	0		2,524 989	06/25/2034 . 04/15/2027 .	1.D FM 1.A FE
15673G-AA-6	CERB 19 A1 - CD0		.08/02/2021	Paydown		4,000,000	4,000,000	4,000,000	4,000,412	0	(412)	0	(412		4,000,000	0	0	0	61,443	07/16/2029 .	1.A FE
15673G-AE-8	CERB 19 B - CDO		.08/02/2021	Paydown		1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0	0	1,000,000	0	0	0	19,654	07/16/2029 .	1.C FE
	CERB 20 A - CD0		.09/22/2021	. Call @ 100.00		2,300,000	2,300,000	2,295,320	2,296,540	0	1,452	0	1,452		2,297,992	0	2,008	2,008	39,364	10/15/2029 .	1.A FE
1615/16_CW_/	CEAR 2002-3 LA5 - RMRS	1	09/01/2021	Paydown	1	24 224	24 224	24 223	24 157	0	68	0	68	0	24 224	0	0		923	06/25/2032	1.D FM

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									Prior Year		Current	Other Than		Change in	Adjusted	Foreign			Stock	Stated	and
									Book/	Unrealized	Year's	Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
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	During	Maturity	strative
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	,	nized	` 13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
16162W-PV-5	CHASE 2005-A2 1A1 - CMO/RMBS		09/01/2021	Paydown		4,069	3,924	2,934	3,940	0	129	0	129	0	4,069	0	0	0	78	.01/25/2036	1.D FM
	CHASE 2006-S3 1A4 - CMO/RMBS		09/25/2021	Paydown		2,358	2,358	1,694	2,399	0	(42)	0	(42)	0	2,358	0	0	0	98	11/25/2036	1.D FM
	CHASE 06A1 2A2 - CMO/RMBS	. -	.09/01/2021	Paydown	ļ	46,973	48,359	13,588	44,372	0	2,601	0	2,601	0	46,973	0	0	0	1,044	.09/25/2036	1.D FM
17181C-AA-6	CIMET 181 A - RMBS		09/20/2021	Paydown		33,546	33,546			F0	2	ō	2		33,546	ō		0	355 47	.03/20/2043	1.0 FE
17307G-ED-6 17312H-AF-6	CMLTI 2004-HYB2 3A - CMO/RMBS		09/01/2021	Paydown		2,563 3,836	2,563 3,836	2,425 3,689	2,539	0	24	0	24	0	2,563	0	0		47	.03/27/2034 06/25/2037	1.D FM
17315X-AF-8	CMLT1 2009-9 2A3 - CMO/RMBS		09/01/2021	Paydown		12,854	12,854	9,737	12.426	o	428	0	428		12.854	0		n	282	11/25/2035	1.D FM
	CMLT1 2015-A B3 - CMO/RMBS		09/01/2021	Paydown	[65,737		59,739		0	581	0	581	0		0	0	0	1,929	.06/25/2058	1.D FM
19421U-AA-2	CASL 2019-A A1 - ABS		09/27/2021	Paydown		32,435	32,435	32,278	32,286	0	148	0	148	0	32,435	0	0	0	319	12/28/2048	1.C FE
	COLT 2020-RPL1 A1 - RMBS		09/01/2021	. Paydown		202,668	202,668	202,667	202,667	0	1	0	ļ <u>1</u>	0	202,668	0	0	0	1,833		1.A FE
	COMM 2013-LC6 A4 - CMBS		09/01/2021	Paydown		158,605	158,605	145,867	155,516	0	3,089	0	3,089	0	158,605	0	0	0	3,098		1.D FM
20267U-AA-7 212168-AA-6	CBSLT 2016-B A1 - ABS		09/25/2021 08/31/2021	Paydown		34,930	34,930 53,437	34,920		0		0		0	34,930	0	0	0	626		1.A FE 2.B FE
21872M-AA-0	CAFL 182 A - CMBS		09/01/2021	Paydown		124,356		124,355	124,348	0		0		0		0	0	0	5,206	11/15/2052	1.A FE
22541Q-FV-9	CSFB 2003-17 1A4 - CMO/RMBS		09/01/2021	Paydown		11,910	11,910	11,990	11,897	0	14	0	14	0	11.910	0	0	0	428	.06/25/2033	1.D FM
22541S-PJ-1	CSFB 2004-AR6 CB1 - CMO/RMBS		.09/27/2021	Paydown		6,563	6,563	5,218	5,599	0	964	0	964	0	6,563	0	0	0	58	10/25/2034	1.D FM
22944P-AA-5	CSMC 2013-TH1 A1 - CMO/RMBS		09/01/2021	Paydown		61,938	61,938	55,619	55,577	0	6,361	0	6,361	0	61,938	0	0	0		.02/25/2043	1.D FM
	DNKN 2017-1 A2I - RMBS		08/20/2021	Paydown		5,000	5,000	5,000	5,000	0	0	0	0	0	5,000	0	0	0	136		2.B FE
	DNKN 2017-1 AII - RMBS		08/20/2021	Paydown		10,000	10,000	10,000	10,000	0	0	0	0	0	10,000	0	0	0	302 244		2.B FE
	DNKN 2019-1 A23 - RMBS		08/20/2021 09/27/2021	Paydown							(102)	0	(102)		8, 125 93, 093		0		1,983	.05/20/2049 .06/25/2040	1.0 FE 1.A FE
	DXC TECHNOLOGY CO		09/20/2021	Call @ 118.53		2,370,660	2,000,000	1,997,880	1,998,709	0	129	0	129	0	1.998.838	0	371,823	371,823		.04/15/2027	2.B FE
	DAIMLER FINANCE NORTH AMERICA LLC		09/15/2021	Maturity @ 100.00		1,000,000	1,000,000	990,350	999,206	0	794	0	794	0	1,000,000	0	0	0	38,750	.09/15/2021	1.G FE
24763L-FN-5	DELHE 1999-2 A7F - RMBS		09/01/2021	. Paydown		4,369	4,369	4,369	3,205	0	1, 164	0	1, 164	0	4,369	0	0	0	94	.08/15/2030	1.D FM
251510-DQ-3	DBALT 2005-2 2A1 - CMO/RMBS		07/25/2021	. Paydown		16	16	14	16	0	0	0	0	0	16	0	0	0	0	.04/25/2035	4.B FM
	DBALT 2005-2 2A1 - CMO/RMBS		09/25/2021	Paydown		32	32	27	32	0	0 910	0	0	0	32	0	0	0	0	.04/25/2035	1.D FM
25468P-CN-4 25755T-AE-0	TWDC ENTERPRISES 18 CORP		08/16/2021 07/25/2021	. Maturity @ 100.00 Paydown		1,000,000	1,000,000 5,000	987 , 170 5 , 000		0	910	0	910		1,000,000 5,000		0		27,500		2.A FE 2.A FE
	DPABS 2017-1 A23 - RMBS		07/25/2021	Paydown		7,500		7,500	7,500	0	0	0	0		7,500	0	0	0	232		2.A FE
	DPABS 2019-1 A2 - RMBS		.07/25/2021	Paydown		3,750	3,750	3,750	3,750	0	0	0	0	0	3,750	0	0	0			2.A FE
	DPABS 2019-1 A2 - RMBS		07/25/2021	Paydown		8,750	8,750	8,754	8,755	0	(5)	0	(5)	0	8,750	0	0	0	211	10/25/2049	
	HONK 2020-2 A2 - RMBS		.07/20/2021	Paydown	ļ	2,500	2,500	2,500	2,500	0	0	0	0	0	2,500	0	0	0	49		2.C FE
26884T-AD-4	ERAC USA FINANCE LLC		08/16/2021	. Maturity @ 100.00		2,000,000	2,000,000	1,990,720	1,999,319	F0	681	ō	681	Jō	2,000,000	0	0	0	90,000		2.A FE
268948-AB-2 28852E-AA-7	EAGLE BANCORP INC		.08/02/2021	. Call @ 100.00		1,000,000	1,000,000	1,000,000	1,000,001	0	(1)	0	(1)	0	1,000,000	0	0	0	50,000 4,832		2.B FE 1.A FE
	ELM ROAD GENERATING STATION SUPERCRITICA		08/10/2021	Pavdown		52.620	52,620	52,620	52.622	0	(3)	0	(3)	0	52.620	0	0	0	2,741	.02/13/2029	1.F FE
30070R-AA-0	XAN 20RS08 A - CD0		.08/17/2021	Paydown		185,261	185,261	185,261	185,261	0	0	0	0	0	185,261	0	0	0	1,466	.03/16/2035	1.A FE
	FCITL 211 A - ABS		09/15/2021	. Paydown		167,494	167,494	167,487	0	0	7	0	7	0	167,494	0	0	0	526	.03/31/2033	1.A FE
	FAHB 20HB2 A - CMO/RMBS		09/25/2021	Paydown		60,764	60,764	60,280	60,300	0	464	0	464	0	60,764	0	0	0		.07/25/2030	1.A FE
	FFML 2006-FF14 A5 - RMBS		09/27/2021	Paydown		64,664	64,664	57,753	60,706	Fō	3,958	ļō	3,958	ļ	64,664	ļ	ō	0	115	10/25/2036	1.D FM
	FHASI 2005-AR5 2A1 - CMO/RMBS		09/01/2021 09/01/2021	Paydown		1,042 2,042	1,042 2,042	963 1,952	1,008	0	34	0	34	0	1,042 2,042		0	0	19 37	11/25/2035	1.D FM 3.B FM
32051G-XV-2	FHASI 2005-AR5 4A1 - CMO/RMBS		09/01/2021	Paydown		2,042	2,681	2,643	2,592		38	0	38	0	2,631	0	0		54	11/25/2035	1.D FM
32052D-AG-6	FHAMS 2006-FA8 1A7 - CMO/RMBS		09/30/2021	Paydown		1,601	1,769	910	(807)	0	1,545	0	1,545	0		0	863	863	65	.02/25/2037	1.D FM
34960Y-AE-2	FCO VII A1F - CDO	. [09/15/2021	Paydown		359,008	359,008	359,008	359,036	0	(28)	0	(28)	0	359,008	0	0	0	10,232	12/15/2028	1.A FE
	FCO VII ATR - CDO	.	09/15/2021	. Paydown		359,008	359,008	359,008	359,008	0	0	0	0	0	359,008	0	0	0	4,844	12/15/2028	1.A FE
	FFIN 2017-1 A - ABS	-	09/15/2021	. Paydown		77,552		77,541	77,548	0	4	0	4	0		0	0	0	1,708	.07/15/2033	1.B FE
35041J-AA-3 3622E8-AB-1	FFIN 2019-1 A - ABS		09/15/2021 09/01/2021	Paydown		49, 119 12, 177	49,119	49,111	48,696	ļ0	423	ļ	423		49, 119 12, 177	0	0	0	1,258 138		1.C FE 1.D FM
	GSA 2006-15 AF2 - HMBS		09/01/2021 09/01/2021	Paydown	·				12, 107		70	0	70	0	12, 1//	0	0	o	138		1.D FM
	GSR 2005-AR6 B1 - CMO/RMBS		08/01/2021	Pavdown		12,806		9,436	9,440	0	3,366	0	3,366	0	12,806	0	0	0	189		5.B FM
	GSR 2005-AR6 B1 - CMO/RMBS		09/01/2021	Paydown		3,999	6,116	5,543	5,545	0	(1,546)	0	(1,546)	0	3,999	0	0	0	133	.09/25/2035	6
36242D-FS-7	GSR 2004-11 2A1 - CMO/RMBS	.	09/01/2021	Paydown	ļ [15,470	15,470	15,552	15,389	0	81	0	81	0	15,470	0	0	0	352	.09/25/2034	1.D FM
36242D-PG-2	GSR 2004-14 3A2 - CMO/RMBS	1	09/01/2021	Pavdown	l	14.797	14.797	14.555	14.378	0	419	0	419	0	14.797	0	0	0	267	12/25/2034	1.D FM

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Ident-	Description		Disposal	Name	Shares of	Consid-	Dan Value	Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification 36298G-AA-7	Description GSPALO 2006-1 CTF - CMBS	eign	Date	of Purchaser	Stock	eration 8.637	Par Value 8.637	Cost 8.833	Value	(Decrease)		nized	13)	Value	Date 8.637	Disposal	Disposal	Disposal	Year	Date .10/09/2029	Symbol 1 G
	GSPALO 2006-1 CTF - CMBS)7/09/2021)9/09/2021	Paydown		17,413		17,808	8,739		(102)	0	(102)	0		0	0		324 792	10/09/2029	2.A FE
	GARR 2018-1 A1T - CD0		09/20/2021	Paydown		363,445	363,445	362,842	363, 124	0	321	0	321	0	363,445	0	0	0	4,511	03/22/2027	1.A FE
	SIX10 181 A3 - CD0		7/17/2021	Paydown		125,890	125,890	125,890	125,909	0	(19)	0	(19)	0	125,890	0	0	0	3,673	.07/17/2028 .	1.A FE
381741-AC-1	GCBDC 4 A1 - CDO		09/02/2021	Paydown		2,000,000	2,000,000	2,000,000	2,000,000	0	0	0	0	0	2,000,000	0	0	0	51,608	11/05/2032	1.A FE
38177K-AA-0 38521V-AA-9	GOCAP 49 A1 - CDO		09/02/2021 09/15/2021	Paydown		4,000,000 425,356	4,000,000 425,356	4,000,000 425,356	4,000,000 425,356	₀		0	0	0	4,000,000 425,356	0	0	0	122,985	07/20/2032	1.A FE
	GACM 2019-FL1 A - CD0)9/15/2021)9/16/2021	Paydown	·	425,356		425,356			0	n	n	0 n		n	0	n		06/15/2037 03/16/2035	1.A FE
	GREENWICH CAPITAL STRUCTURED PRODUCTS TR		09/01/2021	Paydown		5, 175	5,175	5,149	5, 196	0	(20)	0	(20)	0	5, 175	0	0	0	150	09/01/2034	1.D FM
40538C-AU-4	HLA 2014-1 B2R - CD0	. C	7/30/2021	Paydown		111,521	111,521	111,521	111,521	0	0	0	0	0	111,521	0	0	0	2,853	04/18/2026	1.A FE
	HALLIBURTON CO		08/16/2021	. Call @ 100.00		1,000,000	1,000,000	996,700	999,677	0	231	0	231	0	999,907	0	93	93	24,375		
	HNGRY 201 A - RMBS		09/20/2021 09/20/2021	Paydown		3,250	3,250	3,250	3,250	0	0	0	16	0	3,250	0	0	0	97 1,566	12/20/2050 09/21/2040	2.B FE 1.A FE
	HERO FDG TR 2014-1 - ABS		09/20/2021 09/20/2021	Paydown		41,032					(17)	0	(17)	0		0	0		1,300	09/21/2040	1.A FE
	HERTZ 192 A - ABS		07/02/2021	Paydown		95,459	0	0	0	0	95,459	0	95,459	0	95,459	0	0	0	(279)	05/25/2025	
	HITR A - CDO		08/26/2021	Paydown		4,957,311	4,957,311	4,957,311	4,957,311	0	0	0	0	0	4,957,311	0	0	0	152,650	02/01/2038	1.E FE
	HORZN 181 A - ABS		07/15/2021	Paydown		18,213	18,213	18,212	18,213	0	0	0	0	0	18,213	0	0	0	474	12/15/2038	1.G FE
	HORZN 181 A - ABS		09/15/2021 07/15/2021	Paydown		99,802	99,802 10,469	99,800 10,469	99,804 10,469	0	(2)	0	(2)	0	99,802 10,469	0	0	0	3,337 227	12/15/2038 07/15/2039	2.A FE
	HP CMNTYS LLC		07/15/2021 09/15/2021	Paydown		175.607	175.607	169.862	174.587		1.020	0	1.020		175.607		0	o	8.815	03/15/2023	1.G FE
	IMM 2005-2 1A2 - RMBS		09/27/2021	Paydown		19,091	19,091	16,037	17,100	0	1,991	0	1,991	0	19,091	0	0		91	04/25/2035	1.D FM
	IMM 2005-3 M1 - RMBS	0	09/27/2021	Paydown		2,266	2,266	Ω	1,627	0	639	0	639	0	2,266	0	0	0	47	08/25/2035	1.D FM
46185J-AA-6	IHSFR 2018-SFR1 A - RMBS		09/17/2021	Paydown		8,580	8,580	8,580	8,580	0	0	0	0	0	8,580	0	0	0	45	03/19/2037	1.A FE
46187X-AA-3 46616M-AA-8	HSFR 2018-SFR4 A - RMBS HENDR 2010-3 A - RMBS		09/17/2021 09/15/2021	Paydown		5,565	5,565	5,036	5,528		37	0	37	0	5,565 12,692	0	0	0	46	01/19/2038 12/15/2048	1.A FE
	HENDR 2011-1 A - RMBS		09/15/2021	Paydown		26,322	26,322	26,315	26,314	0	8	0	8	0	26.322	0	0	0	818	10/15/2056	1.A FE
	HENDR 123 A - RMBS		9/15/2021	Paydown		34, 194	34,194	33,852	33,883	0	311	0	311	0	34, 194	0	0	0	734	.09/15/2065	1.A FE
	HENDR 2013-1 A - RMBS		09/01/2021	Paydown		10, 173	10,173	10 , 166	10 , 167	0	6	0	6	0	10 , 173	0	0	0	214	04/15/2067	1.A FE
	HENDR 2013-2 A - RMBS		09/15/2021 09/15/2021	Paydown		27,981	27,981	27,974	27,982	0	(1)	0	(1)	0	27,981	0	0	0	795 579	03/15/2062 01/17/2073	
	HENDR 2014-1 A - RMBS		09/15/2021 09/15/2021	Paydown		16,583		16,574	16,572		11	0	11	0		0	0			03/15/2063	
	JFIN 2015R A2R - CD0		08/03/2021	Paydown		0	0	0,0,4	0,0,0,2	0	0	0	0	0	0	0	0	0	(5,278)	03/16/2026	1.A FE
46618A-AA-2	HENDR 2014-2 A - RMBS		09/15/2021	Paydown		35,421	35,421	35 , 137	35, 159	0	261	0	261	0	35,421	0	0	0	866	01/17/2073	1.A FE
	HENDR 2014-3 A - RMBS		09/15/2021	Paydown		45,954	45,954		46,066	0	(112)	0	(112)	0	45,954	0	0	0	1,024	06/15/2077	1.A FE
	HENDR 2015-1 A - RMBS		09/15/2021 09/15/2021	Paydown						0	637	0	637	0	76,083 21,492	0	0	0	1,652 564	09/15/2072 03/15/2058	1.A FE
	HENDR 171 A - RMBS		09/15/2021	Paydown		6,961		6,955		n	5	n	5	0		n	0	n	176	08/16/2060	1.A FE
466247-RP-0	JPMMT 2005-HYB4 2A1 - CMO/RMBS		09/01/2021	Paydown		9,318	9,318	8,270	8,331	0	987	0	987	0	9,318	0	0	0	170	07/25/2035	
	JPALT 2005-S1 1A4 - CMO/RMBS		09/01/2021	Paydown		5, 180	5, 185	3,501	5,244	0	(64)	0	(64)	0	5, 180	0	0	0	213	12/25/2035	1.D FM
	JPALT 2006-A1 3A1 - CMO/RMBS		09/01/2021	Paydown		43,681	43,681	35,935	42,810	0	871	0	871	0	43,681	0	0	0	865	03/25/2036	1.D FM
	JPALT 2006-S1 1A6 - CMO/RMBS		09/01/2021 09/01/2021	Paydown		10,335	10,3547,319	5,797 2,755		0	37	0	37	0	10,335 7,319	0	0	0	373	03/25/2036 06/25/2036	1.D FM
	JPALT 2006-S3 A5 - RMBS		09/01/2021	Paydown			12,751	8,521	(85)	0	85	0	85	0	0	0	0	0	385	08/25/2036	1.D FM
	JPMMT 2007-A2 3A1 - CMO/RMBS	0	09/01/2021	Paydown		479	483	0	464	0	15	0	15	0	479	0	0	0	9	04/25/2037	1.D FM
	JPMMT 2008-R2 1A1 - CMO/RMBS		9/01/2021	Paydown	l	50,404	50,404	39,883	42,675	0	7,730	0	7,730	0	50,404	0	0	0	996	07/29/2037	1.D FM
	JPMMT 2008-R4 2A1 - CMO/RMBS		09/01/2021	Paydown		1,806	1,806	1,401	1,806	0	1	0	1	0	1,806	0	0	0	116	11/26/2036	1.D FM
	JPMRR 2010-1 3A2 - CMO/RMBS		09/01/2021 09/01/2021	Paydown		93,792	97,307 52,091		90,847 42,455		2,946		2,946	0 n	93,792 52,091	0	0	0 n	3,859	04/26/2037 03/01/2039	1.D FM
	JPMCC 2011-C5 A3 - CMBS)7/16/2021	Paydown		117.275	117.275	118.447	117.151	0	123	0	123	0	117.275	0	0	0	2.854		1.D FM
46651G-AC-3	JPMMT 2019-7 A3 - CMO/RMBS		09/01/2021	Paydown		39,896			40,370	0	(474)	0	(474)	0	39,896	0	0	0	915	02/25/2050	1.D FM
	JMAC 08R1 A - CMO/RMBS		09/25/2021	Paydown		96,337	94,258	72,070	91,686	0	4,651	0	4,651	0		0	0	0	3, 186	06/25/2047	1.D FM
	JMAC 2010-R8 2A2 - CMO/RMBS		09/01/2021	Paydown		14,066	14,066	227	12,996	0	1,070	0	1,070	0	14,066	0	0	0	273	07/27/2037	1.D FM
	JMAC 2008-R2 2A3 - CMO/RMBS		07/01/2021 09/01/2021	Paydown			0 .56.274	0 .44.502			(1) 1, 179	0	(1)	0	0 .56.274	0	0	0		07/25/2037 01/25/2039	1.D FM
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CUSIP					Number of				Adjusted	Valuation	(Amor-		t Value		Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For	Disposal	Name	Shares of	Consid-		Actual			`	Impairment		/Adjusted					During	Maturity	
	Description	For-					Dealleline		Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on		,	
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)		nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
472321-AK-4 47232D-AH-5	JMAC 2008-R2 3A2 - CMO/RMBS JEFFERIES RESECURITIZATION TRUST 2009-R5		08/01/2021 .	Paydown		(537)	1,783	203	(604) 6,854	0	67	0	67	0	(537) 6,992	0	0		30	02/25/2037 09/01/2036	1.D FM
47232D-AL-6	JEFFERIES RESECURITIZATION TRUST 2009-R5		07/01/2021 .	Paydown		0,992	135	6,215	0,004		(1)	0	(1)		0,992	0	0		500	09/01/2036	
47232D-AR-3	JEFFERIES RESECURITIZATION TRUST 2009-R5	-	09/30/2021 .	Paydown		74,303	74,303	7,772	(7,450)	n	74,737	n	74,737	n	67,287	0	7,017	7,017	1,447	01/01/2047	
47232D-AU-6	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021	Paydown		14,833	14,833	14,063	14,723	0	110	0	110	0	14,833	0	0	0	449	09/01/2036	
47232D-AY-8	JEFFERIES RESECURITIZATION TRUST 2009-R5		07/01/2021 .	Paydown		3,521	3,521	3,521	3,531	0	(10)	0	(10)	0	3,521	0	0	0	93	01/01/2036	3.B FM
47232D-AY-8	JEFFERIES RESECURITIZATION TRUST 2009-R5	.	09/01/2021 .	Paydown		4,361	4,361	4,361	4,380	0	(19)	0	(19	0	4,361	0	0	0	147	01/01/2036	1.D FM
47232D-BK-7	JEFFERIES RESECURITIZATION TRUST 2009-R5	-	09/25/2021 .	Paydown		36,729		0	32,674	0	4,054	0	4,054	0		0	0	0	116	09/25/2036	1.D FM
47232D-BM-3	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/25/2021 .	Paydown		0	2, 155	0	1	0	(1)	0	(1)	0	0	0	0	0	8	09/25/2036	
47232D-BR-2	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		75, 128		46,501	72,724	F	2,404	0	2,404	0		0	0	ō	3,211	07/01/2037	1.D FM
47232D-CJ-9 47232D-CX-8	JEFFERIES RESECURITIZATION TRUST 2009-R5 JEFFERIES RESECURITIZATION TRUST 2009-R5	-	09/01/2021 . 09/01/2021 .	Paydown		15, 129	15,12928,544	6,682 5,065	13,802	0	1,327 1,972	0	1,327	0	15, 129 28,544	0	0	0	296 622	05/01/2036 04/01/2047	
47232D-CX-8	JEFFERIES RESECURITIZATION TRUST 2009-R5		07/01/2021 .	Paydown					0,572		1,9/2		1,9/2		28,544		0		022	04/01/2047	
47232D-DA-7	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		9,269	9,269	3,934	9, 173		96		96		9,269			n	318	06/01/2037	1.D FM
47232D-DB-5	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021	Paydown		0	20	2	0	0	0	0	0	0	0,200	0	0	0	1	.06/01/2037	1.D FM
47232D-DF-6	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		16,939	16,940	4,395	16,223	0	716	0	716	0	16,939	0	0	0	652	08/01/2037	1.D FM
47232D-DK-5	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		20,416	20,416	12,562	20,126	0	290	0	290	0	20,416	0	0	0	952	08/25/2037	1.D FM
47232D-DN-9	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		0	10	0	0	0	0	0	0	0	0	0	0	0	0	08/01/2037	1.D FM
47232D-DR-0	JEFFERIES RESECURITIZATION TRUST 2009-R5		07/28/2021 .	Paydown		24,847	24,847	15,207	30,284	0	(5,437)	0	(5,437	0	24,847	0	0	0	427	09/01/2035	
47232D-DS-8	JEFFERIES RESECURITIZATION TRUST 2009-R5	-	09/01/2021 .	Paydown		43,947	40,499	12,063	42,498	0	1,448	0	1,448	0	43,947	0	0	0	794	09/01/2035	1.D FM
47232D-DZ-2	JEFFERIES RESECURITIZATION TRUST 2009-R5		09/01/2021 .	Paydown		19,449	19,449	4,537	17,805	0	1,645	0	1,645	0	19,449	0	0	0	460	04/01/2037	1.D FM
47232D-EA-6 47232D-FJ-6	JEFFERIES RESECURITIZATION TRUST 2009-R5 JEFFERIES RESECURITIZATION TRUST 2009-R5		07/01/2021 . 09/01/2021 .	Paydown		18,232		0	18,300		0	0			0 18,232	0	0		377	04/01/2037 12/01/2036	1.D FM
472320-AA-1	JMAC 2009-R2 1A - CMO/RMBS		09/01/2021	Pavdown		225,360	225,360	219,022	214.740	0	10,620		10,620		225,360		0	n	6, 194	11/26/2037	1.D FM
47232V-AB-8	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		12,068	12.068	12,068	12,030	0	38	0	38	0	12.068	0	0	0	471	02/01/2037	1.D FM
47232V-AD-4	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		0	1,496	0	Ω	0	0	0	0	0	0	0	0	0	54	02/01/2037	1.D FM
47232V-AG-7	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		42,242	42,242	42,242	42, 115	0	127	0	127	0	42,242	0	0	0	1,579	02/01/2037	1.D FM
47232V-AJ-1	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		0	5,237	0	27	0	(27)	0	(27)		0	0	0	0	180	02/01/2037	1.D FM
47232V-BY-7	JEFFERIES RESECURITIZATION TRUST 2009-R4		07/01/2021 .	Paydown		384	288	0	271	0	113	0	113	0	384	0	0	0	12	11/01/2037	5.B FM
47232V-BY-7 47232V-CC-4	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		655	390		453	0	201	0	201	0	655 11,707	0	0	0	146	11/01/2037	1.D FM
47232V-CC-4 47232V-CD-2	JEFFERIES RESECURITIZATION TRUST 2009-R4 JEFFERIES RESECURITIZATION TRUST 2009-R4	-	08/01/2021 .	Paydown					11,234		4/3			0	11,707		0		461 28	07/01/2036 07/01/2036	1.D FM
47232V-CH-3	JEFFERIES RESECURITIZATION TRUST 2009-R4	-1	09/01/2021 .	Pavdown		9.662	9,662	8.140	9.466	n	196	n	196	n	9.662	n	0	n	188	04/01/2037	1.D FM
47232V-CN-0	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Paydown		31,517	31,517	17,028	30,640	0	877	0	877	0	31,517	0	0	0	1,136	11/01/2035 .	
47232V-CP-5	JEFFERIES RESECURITIZATION TRUST 2009-R4		07/01/2021 .	Paydown		0	299	0	3	0	(3)	0	(3	0	0	0	0	0	10	11/01/2035 .	
47232V-CS-9	JEFFERIES RESECURITIZATION TRUST 2009-R4	.	08/01/2021 .	Paydown		10,556	10,556	5,454	10,220	0	335	0	335	0	10,556	0	0	0	398	05/01/2036	1.D FM
47232V-CU-4	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown		0	139	0	1	0	(1)	0	(1)	0	0	0	0	0	6	05/01/2036 .	4.B FM
47232V-DC-3	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		11,074	11,074	11,074	11,066	0	8	0		0	11,074	0	0	0	379	09/01/2035	1.D FM
	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		0	410	0	2	0	(2)	0	(2)	0	0	0	0	0	13	09/01/2035	
47232V-DJ-8 47232V-DK-5	JEFFERIES RESECURITIZATION TRUST 2009-R4 JEFFERIES RESECURITIZATION TRUST 2009-R4		09/28/2021 .	Paydown		1,942	1,942	461	1,252		690		690		1,942 10.264		0		184 453	04/01/2036 04/01/2036	1.D FM
47232V-DK-5	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown				2,984	25,680	n				0 n	25,905	u			453	02/01/2036	3.B FM
47232V-DQ-2	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown		0, 503	23,300		23,000	0	0	0	0	0		0	0	0	 0	02/01/2036	
47232V-DR-0	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Paydown		8,937		8,937	8,872	0	65	0	65	0	8,937	0	0	0	364	04/01/2036	
47232V-DU-3	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		0	626	0	0	0	0	0	0	0	0	0	0	0	24	04/01/2036	1.D FM
47232V-DX-7	JEFFERIES RESECURITIZATION TRUST 2009-R4		08/01/2021 .	Paydown		1,751	1,751	1,262	1,754	0	(3)	0	(3		1,751	0	0	0	67	07/01/2036	1.D FM
47232V-DY-5	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown		0	130	0	2	0	(2)	0	(2	0	0	0	0	0	5	07/01/2036 .	
47232V-EA-6	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown		22,378	22,378	16,028	22,241	0	137	0	137	0	22,378	0	0	0	894	03/01/2036	
47232V-EB-4	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/30/2021 .	Paydown	·	0	10	0	(1,812)	łō	0	ō	ļō	ļō	(1,813)	0	1,813	1,813	0	03/01/2036	
47232V-EE-8	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown		4,094	4,094	4,094	4,093	}0	11	ļ0	ļ	0	4,094	0	0	}ō	153	03/01/2037	1.D FM
47232V-EH-1 47232V-EL-2	JEFFERIES RESECURITIZATION TRUST 2009-R4 JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021 .	Paydown			544	8,984	0 10,771	0	176	0		0			0	0	22 417	03/01/2037 04/01/2037	1.D FM
	JEFFERIES RESECURITIZATION TRUST 2009-R4	-	09/01/2021 .	Paydown			795	0,304	۱۱,77	n	n	n	n 1/6	n		n	n	n	33	04/01/2037	
	JEFFER IES RESECURITIZATION TRUST 2009-R4	-1	09/01/2021	Paydown		9 856	10 288	٥	9 649		208	0	208	0	9.856		0		416	01/01/2036	

·					Show All Lo	ng-Term Bo	nds and Stoc														
1	2	3	4	5	6	7	8	9	10	Cl	nange In Boo	ok/Adjusted	Carrying Va	alue	16	17	18	19	20	21	22
										11	12	13	14	15							NAIC
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												Current	Change in	Foreign					Bond		nation
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									Prior Year		Current	Other Than		Change in	Adjusted	Foreign			Stock	Stated	and
									Book/	Unrealized		Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
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	During	Maturity	strative
ification	Description	eian	Disposar	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)			13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	JEFFERIES RESECURITIZATION TRUST 2009-R4	- 3	.09/01/2021	Pavdown	SIUCK		7.928			(Decrease)	Accretion 10	nized	13)	value		Dispusai	Dispusai	Dispusai		02/01/2036	1.D FM
	JEFFERIES RESECURITIZATION TRUST 2009-R4			Paydown		7,928	7,928	7,928 298	7,919 (19)		19		19	0	7,928		0		285	02/01/2036	1.D FM
	JEFFERIES RESECURITIZATION TRUST 2009-R4		.09/01/2021	Paydown		36,400	36,400	1,832	31,962	0	4,439	0	4,439		36 . 400	0	0	n	337	. 01/01/2047	
	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Paydown		5,955	5,955	2,436	5,664	0	292	0	292	0	5,955	0	0	0	291	03/01/2036	1.D FM
47232V-GM-8	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/01/2021	Paydown		0	5,965	709	(17)	0	17	0	17	0	0	0	0	0	268	03/01/2036 .	1.D FM
47232V-GR-7	JEFFERIES RESECURITIZATION TRUST 2009-R4		09/30/2021	Paydown		0	12	0	(977)	0	0	0	0	0	(977)	0	977	977	0	01/01/2047	1.D FM
47233D-AB-7	JEFFERIES RESECURITIZATION TRUST 2009-R1		07/01/2021	Paydown	ļ	37,282	37,282	7,550	36,205	0	1,078	0	1,078	0	37,282	0	0	0	1,118	. 09/01/2036	2.B FM
47233D-AB-7	JEFFERIES RESECURITIZATION TRUST 2009-R1		07/01/2021	Paydown		0	0	0	0	0	0	0	0	0	0	0	0	0	186		3.B FM
	JEFFERIES RESECURITIZATION TRUST 2009-R1		08/01/2021	Paydown		55,403	55,403	11,219	53,555	ō	1,848	ō	1,848	0	55,403	ō	0	ō	2,216		
	KDAC 2017-1 A - ABS		.07/15/2021 .09/15/2021	Paydown			1,661		1,661	0	0 276	0		0	1,661	0	0		41 727	12/15/2042 01/15/2042	
	LXS 2005-9N 1A1 - RMBS		09/27/2021	Paydown		33, 122		28,247	28,676	n	4.446	0	4.446			0		0	135	02/25/2036	1.D FM
	LXS 2007-1 WF1 - RMBS		09/01/2021	Paydown		15,423	25,292	9,817		0	316	0	316	0	15,423	0	0	0	1,250	01/25/2037	1.D FM
	LNCR 2018-CRE1 A - CD0		08/15/2021	Paydown		63,317	63,317		58,946	0	4,370	0	4,370	0	63,317	0	0	0	530	05/15/2028	1.A FE
543190-AA-0	LTRAN III A1 - RMBS		09/15/2021	Paydown		11,499	11,499	11,141	11,284	0	215	0	215	0	11,499	0	0	0	232	01/17/2045	
	MF1 19FL2 AS - CD0		09/27/2021	Paydown		140,064	140,064	140,370	Ω	0	(306)	0	(306)	0	140,064	0	0	0	1,656	11/27/2034	1.A FE
565849-AL-0	MARATHON OIL CORP		09/13/2021	Call @ 100.00		2,218,422	2,000,000	1,995,420	1,997,784	0	327	0	327	0	1,998,111	0	1,889	1,889	276,600		
	MDIBS 2006-1 A - ABS		09/10/2021	Paydown		(126, 152)	(126, 152)	(70,003)	(125,003)	0	(1,149)	0	(1, 149)		(126, 152)	0	0	0	(562)		
	MASTR 2006-1 1A3 - CMO/RMBS		08/01/2021	Paydown		1,716	1,716	998	1,729	0	(13)	0	(13)		1,716	0	0	0	58		
	MARM 2007-HF2 A1 - RMBS		.09/01/2021	Paydown		5,062 79,751	5,062	2,943 72,125	5,114 76,746		(52)		(52)		5,062 79,751				218	05/25/2036 09/25/2037	1.D FM 1.D FM
	MELLO 21MTG1 A1 - CMO/RMBS		09/01/2021	Paydown		136,502	136,502	138 , 180	0	0	(1,678)	0	(1,678)		136,502	0	0	0	1,429	04/25/2051	1.A FE
	GNABS 1998-GN1 M1 - RMBS		09/01/2021	Paydown		3,841	3,841	3,840	3,823	0	17	0	17	0	3,841	0	0	0	171	. 02/25/2027	1.D FM
	MLMI 2005-A9 4A1 - CMO/RMBS		09/01/2021	Paydown		40,410		35,591	40,271	0	138	0	138	0	40,410	0	0	0	711	12/25/2035	1.D FM
	MF1 2020-FL3 A - CD0		09/15/2021	Paydown		914,698	914,698	914,698	914,698	0	0	0	0	0	914,698	0	0	0	15, 175	07/16/2035	1.A FE
	MIDLAND COGENERATION VENTURE LP		09/15/2021	Paydown		46,214	46,214		46,218	0	(4)	0	(4)	0	46,214	0	0	0	2,773		
	MIDLAND COGENERATION VENTURE LP		09/15/2021	Paydown		483,525	446,412	446,412	446,412	0	0	0	0	0	446,412	0	37 , 113	37 , 113	3,270		
	MSM 2006-17XS A3A - RMBS		09/01/2021	Paydown	·	7,934	7,934	5,375	7,870	0	64	0	64	0	7,934	0	0	0	73		1.D FM
	MSM 2007-10XS A18 - RMBS		.09/01/2021	Paydown		94,791 95,158	94,791 .95,158				11,373		11,373		94,791 95,158	0			1,237 3,716	02/25/2037 04/26/2036	1.D FM
	MHL 2005-2 1A2 - RMBS		09/25/2021	Paydown			8,195	4,507	5,465	0	2,730	0	2,730	0		0	0	0	43	05/25/2035	1.D FM
	MVW 2013-1 C2R - CD0		07/07/2021	Call @ 100.00		1,250,000	1,250,000	1,250,000	1,249,568	0	64	0	64	0	1,249,632	0	368	368	41, 185	10/15/2030	1.F FE
62942K-AA-4	NRPMT 2013-1 A1 - CMO/RMBS		09/01/2021	Paydown		137,313	137,313	131, 133	132,216	0	5,097	0	5,097	0	137,313	0	0	0	2,809	07/25/2043	1.D FM
	NZES 20FHT1 A - CMO/RMBS		09/25/2021	Paydown		71,835	71,835	71,833	71,833	0	2	0	2	0	71,835	0	0	0	2,013	11/25/2025	2.C FE
	NHLT 2020-1 A - RMBS		09/25/2021	Paydown		99,581	99,581	99,581	99,581	0	0	0	0	0	99,581	0	0	0	831	09/25/2030	
	NCAMT 2006-ALT1 AF2 - RMBS		09/01/2021	Paydown	·····	1,345	1,345	656	1,340	}0	5	ļō	5	0	1,345	}0	ļ0	}0	15	. 07/25/2036	1.D FM
	NCAMT 2006-ALT2 AF3 - RMBS NCAMT 2006-ALT2 AF4 - RMBS		.09/01/2021	Paydown		8,709 4,355	8,709 4,355	5,792 2,896	8,673	0	36		36	0	8,709 4,355	0	0		101 50	10/25/2036	1.D FM
	NZES 18FNT1 A - CMO/RMBS			Paydown		4,355		11,048	11,049	n	10	n	18	0 n	4,355	n	0 n	n	266	10/25/2036	2.C FE
	NZES 18FNT1 B - CMO/RMBS		09/25/2021	Paydown		22,100	22,100	22,099	22,100	0	1	0	1	0	22,100	0	0	0	575	05/25/2023	2.C FE
	NEW YORK UNIVERSITY		07/01/2021	Call @ 100.00		188,000	188,000	203,980	198,375	0	(347)	0	(347)	0	198,028	0	(10,028)	(10,028)	9,844	07/01/2032 .	1.D FE
	NEWFL 2016-1 A2R - CD0		07/20/2021	Paydown		82,903	82,903	82,903	82,898	0	5	0	5	0	82,903	0	0	0	2,405	04/20/2028	1.A FE
65251X-AN-6	NSBKY 1_AR - CD0		07/26/2021	Paydown		94,782	94,782	94,782	94,782	0	0	0	0	0	94,782	0	0	0	1,296	10/25/2028	1.A FE
	NAA 2007-1 1AA - RMBS		09/01/2021	Paydown		8,585	8,209	0	8,255	0	329	0	329	0	8,585	0	0	0	241	03/25/2047	1.D FM
	NMRR 2011-4R 110 - CMO/RMBS		09/01/2021	Paydown	····	28,528	26,677	23,187	28,155	ļ0	373	ļ	373	0	28,528	J	0	0	575	12/29/2036	1.D FM
	OCP 2017-13 A1B - CD0		.09/14/2021 .09/14/2021	Call @ 100.00		1,500,000	1,500,000	1,493,250	1,495,916	0	587	0	587	0	1,496,503	0	3,497	3,497	21,478 34,711	07/15/2030 07/15/2030	1.A FE 1.C FE
	OBX 2019-INV1 A12 - CMO/RMBS		09/01/2021	Paydown		1,000,000	1,000,000	1,000,000	1,000,141		2		14,979	0	1,000,143	0	(143)	(143)	5,494	11/25/2048	
67181D-AA-9	OAKIG 2020-1 A1 - CMBS/RMBS		.09/20/2021	Paydown	·····	4,360	4,360	4,360	4,360	n	14,979	n	14,3/9	n	4,360	0	n	n	5,494	11/23/2046	1.0 FM
67181D-AB-7	OAKIG 2020-1 A1 - CMBS/RMBS		.09/20/2021	Paydown	[4,360	4,360	4,358	4,358	0	2	0	2	0	4,360		0	0	64	11/21/2050	1.A FE
	OAKIG 2021-1 A1 - RMBS		09/20/2021	Paydown		8,167	8,167		0	0	1	0	1	0	8,167	0	0	0	68	01/20/2051	1.A FE
67190A-AB-2	OAKIG 2021-1 A2 - RMBS		09/20/2021	Paydown		6,534	6,534	6,533	0	0	1	0	1	0	6,534	0	0	0	71	01/20/2051	1.A FE
	OBX 19EXP1 1A3 - CMO/RMBS		09/01/2021	Paydown		126,568	126,568	125,935	125,944	0	625	0	625	0	126,568	0	0	0		01/25/2059	
68268H_44_4	OMELT 2016-3 A - ARS	1	09/18/2021	Paydown	1	545 499	545 499	561 864	549 151		(3.651)	١	(3.651)	١ .	545 499		1 0		10 047	06/18/2031	1 A FF

Cusp					Show All Lo	ng-Term Bo	onds and Sto	ck Sold, Red	deemed or C	Otherwise [Disposed o	of During t	he Current	Quarter							
Column C	1	2	3 4		6		8								16	17	18	19	20	21	22
Cup Cup										11	12	13	14	15							NAIC
CLISP																					Desig-
Pro																					nation,
Cubic Cubi																					NAIC
CLISIP Port Value Port Va													Total	Total							Desig-
Custor C												Current	Change in	Foreign					Bond		nation
CLISIP Discription Pro												Year's	Book/	Exchange	Book/				Interest/		Modifier
Constitution Part Description Part									Prior Year		Current	Other Than	Adjusted		Adjusted	Foreign			Stock	Stated	and
Color Description Descri									Book/	Unrealized	Year's	Temporary		Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
Description Description	CUSIP				Number of				Adjusted		(Amor-			/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Find Description Descrip	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						Date	Disposal	Disposal	Disposal	Year	Date	Symbol
Section Process Proc				Paydown						0		0		0		0	0	0			1.A FE
Section of the Common Sect										0		0		0		0	0	0			1.D FM
1500 1500										0		0		0		0	0	0			1.A FE
Septiment Sept										0		0		0		0	139	139			
September Prince			.,						n				0		n	0	n			1.D FM	
September Price Content										0				0		0	0				
272579-14 POMES ALEGRET PRINKE TO - 485 C	69546T-AA-0	PAID 2020-3 A - ABS		Paydown		274,268	274,268	274,266	274,267	0	2	0	2	0	274,268	0	0	0	3,873	05/17/2027 .	1.G FE
1,000 1,00					ļ					0		0		0		0	9,338	9,338			
JAMES PRICE PRICE PRICE PRICE PRICE 10 10 10 10 10 10 10 1					····					0		0		0		0	0	0			
										u		0		0		0	32	32			
Mode-A-1 Resp 2003-1-1/1 C 2007-RES 5001/1207 Paydon 55.000 55.000 75.220 75.										0		0		0		0	0	0			1.D FM
1686 1686										0		0		0		0	0	0			1.D FM
2007/2006 1.00 1.										0		0		0		0	0	0			1.D FM
1-100 1-10										0		0		0		0	0	0			1.D FM
1,76889-4-4-3 1971 19 1 - 0.07/8865 19 2 - 0.07/8865 19										0		0		0		0	0	0			
Process-A-7 RelT 202 + - 85										0		0		0		0	0	0			
										0		0		0		0	0	0			
7997 74-19 RMC 2007-3 78 - RMS								267,828	267,828	0		0		0		0	0	0		04/26/2060 .	1.A FE
1,7600-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				.,						0		0		0			0	0	1		
				_ * .						0		0		0			0	0			
Post Post												0		0			0	0			
1.571 1.57										0		0		0			0	0			1.D FM
78937-48-0 78727-48-0 787										0		0		0		0	0	0			1.D FM
TAMAGA-HA-4 SETE 201 12 - ABS D. D. D. D. D. D. D. D. D. D. D. D. D.										0		0	0	0		0	0	0	3		1.A FE
784710-A-5 SQP 614 ABS 0.9/55/2021 Paydom 45.012 55.012 55.007 45.010 0.9 2.0 5.012 0.0 0.0 0.973 (08/25/2025 1.4 F B B B G D B A B A B A B A B A B A B A B A B A B										0		0		0		0	0	0			1.A FE
B0006-A-B SAP 2018-1 A - ABS C D9/15/2021 Paydon 22,655 23,65										0	15	0	15	0		0	0	0			. 1.A FE
81743-A-7 SELF 2019-5 A1 - CM/PMBS										0	8	0	8	0		0	0	0			
B17451-AA-8 SENT 2013-1 1 A1 - CMO/FMES				· ·						0	(5,463)	0	(5, 463)	0		0	0	0			
81748 -14-4 SBIT 2013-2 A - DMO/FIRIS D9/01/2021 Paydown			.,						0		0		0		0	0	0				
B1748_HA_A_3 SEIIT 2019-4 A1 - CIMO/RIBS D9/01/2021 Paydorn 119,419 119,419 119,419 121,919 121,613 D (2,224) D (2,224) D (1,449) D D D D D D D D D										0		0		0		0	0	0			1.D FM
B1748/-AA-0 CEUT 202 A 1 - CMC/RIBS 0.92/5/2021 Paydown 154, 158 154, 158 157, 964 1.55, 667 0 (1.449) 0 (1.449) 0 (1.449) 0 0 0 0 0 0 0 0 0				· ·	<u> </u>					······0		0		0		ļ0	0	0			
817743-A4-5 SPRO 2019-1 A2 - RIBIS .07725/2021 Paydown .2,500 .2,500 .2,500 .2,500 .2,500 .2,500 .0 0 .0					ļ					n		0		0		n		n			1.D FM
83417F-AA-7 SCTY 2014-2 A - ABS 07/20/2021 Paydown 9,422 9,422 9,422 9,424 0 (2) 0 (2) 0 9,422 0 0 0 379 07/20/2044 2.A F 83447P-AA-5 SCTY 2015-1 A - ABS 0.96/20/2021 Paydown 46,813 46,813 46,813 46,813 46,815 0 (2) 0 (2										0		0		0		0	0				2.C FE
835460-AF-5 SONIC 2018-1 A2 - RIMBS 0.9/10/2021 Paydown 1.461,250 1.461,250 1.461,250 1.461,250 1.461,250 0.9/36 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.995,577 0.0 0.0 0.0 0.95,430 0.9	83417F-AA-7	SOCTY 2014-2 A - ABS								0						0	0	0			2.A FE
835495-M-8 SONICIO PRODUCTS CO .08/02/2021 Cail @ 100.00 .1,000,000 .1,000,000 .995,400 .995,557 .0 .310 .0 .0,999,867 .0 .133 .133 .32,813 .1/101/2021 2.8 F .83611M-JX-7 SVFE 2005-OPT4 2.44 - RIBIS .0,90/27/2021 Paydown .57,038 .57,038 .43,64 .54,674 .0 .2,364 .0 .2,364 .0 .57,038 .0 .0 .2,364 .0 .0 .0 .0 .0 .0 .0 .				.,	ļ					ō						0	0	0			
83611H-JX-7 SVHE 2005-OPT4 2A4 - RIMBS .09/27/2021 Paydown .57,038										0		0		0		0					
84858 -AA-4 SPIRIT AIRLINES CLASS AA PASS THROUGH CE .08/15/2021 Paydown .28,423 .28,423 .28,423 .28,423 .28,423 .0 .0 .0 .0 .0 .0 .0 .										n		0		0		n		133 N			
855541-AC-2 STARIN 2007-S1 3A1 - CIMO/FRIBS .09/01/2021 Paydown .11,001 .19,430 .10,886 .0 .115 .0 .115 .0 .11,001 .0 .0 .0 .197 .01/25/2037 1.D. FI .10,001				· ·						0		0		0		0	0	0			
86212V-AD-6 STR 2018-1 A1 - ABS .09/20/2021 Paydown .5,000 .5,000 .4,999 .4,999 .0 .1 .0 .5,000 .0 .0 .0 .132 .10/20/2048 1.A FI 86213C-AB-1 STR 2015-1 A2 - ABS .09/20/2021 Paydown .1,250 .1,	855541-AC-2	STARM 2007-S1 3A1 - CMO/RMBS				11,001	11,001	9,430	10,886	0		0		0	11,001	0	0	0	197	01/25/2037 .	1.D FM
86213C-AB-1 STR 2015-1 A2 - ABS 0.9/20/2021 Paydown 1,250										0		0	3	0			0	0			
863579-VIII-5 SARIM 2005-17 5A2 - CMO/RIMBS				· ·	····					0			ļ1	0			0	0			
86360B-AJ-7 SARM 2006-4 5A1 - CMO/RMBS					·							0		0			0	0			
					l					0 n		n		0		n	0	n			1.D FM
				Paydown		874,341	874,341	826,252	827,114	0	47,228	0	47,228	0	874,341	0	0		2,247	05/25/2047 .	1.F FE
869507-AA-1 SPSS 2017-1 A - ABS	869507-AA-1	SPSS 2017-1 A - ABS		Paydown		5, 115	5, 115	5, 113	5, 113	0	2	0	2	0	5, 115	0	0	0	135	01/15/2071 .	1.A FE
87238Q-AE-3 BLACKROCK TCP CAPITAL CORP	87238Q-AE-3	BLACKROCK TCP CAPITAL CORP		. Call @ 100.00		3,098,400	3,000,000	2,988,960	2,996,187	0	1,654	0	1,654	0	2,997,841	0	2, 159	2, 159	234,525	08/11/2022 .	2.C FE

					Show All Lo	ng-Term Bo	nds and Sto	ck Sold, Red	deemed or C	Otherwise [Disposed of	of During tl	he Current	t Quarter							
1	2	3	4	5	6	7	8	9	10	Ch	ange In Bo	ok/Adjusted	Carrying Va	alue	16	17	18	19	20	21	22
										11	12	13	14	15							NAIC
																					Desig-
																					nation,
																					NAIC
													Total	Total							Desig-
												Current	Change in	Foreign					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	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment	t Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For- Dis	sposal	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
87240P-AA-9				Call @ 100.00		2,000,000	2,000,000	2,000,000	1,999,554	0	75	0	75	0	1,999,629	0	371	371	30,839	08/20/2029	. 1.A FE
87275Q-AA-5	TRTX 2018-FL2 A - CMBS			Paydown		2, 179, 151	2, 179, 151	2,094,709	2, 154, 795	0	24,356	0	24,356	0	2, 179, 151	0	0	0	18,382	11/18/2037	. 1.A FE
87342R-AF-1 88156E-AB-2	BELL 181 A22 - RMBS			Paydown		2,500	2,500	2,500					1,359	0	2,500		0		86 70	11/25/2048 01/25/2038	. 1.0 FE
88156E-AB-2	TMTS 2006-17HE AB1 - RMBS			PaydownPaydown		39,883	39,300	34,036	38,060	0	1.822	0	1,822		39,883	0	0	0	105		2.B FM
88157V-AB-3	TMTS 2007-6ALT A2 - RMBS			Paydown		20,124	20,124	10,464	19,561	0	563	0	563		20,124	0	0	0	53	08/25/2038	. 1.D FM
89233P-5F-9	TOYOTA MOTOR CREDIT CORP		15/2021	Maturity @ 100.00		2,000,000	2,000,000	1,994,960	1,999,607	0	393	0	393		2,000,000	0	0	0	68,000	. 09/15/2021	1.E FE
89412R-AB-1	TRAP 5 A1B - CD0			Paydown		221,992	221,992	179, 258	174, 117	0	47,874	0	47,874	0	221,992	0	0	0	2,530	07/15/2034	. 1.0 FE
89655Y-AA-4	TRL 2009-1 A - RMBS			Paydown		8,781	8,781	8,781	8,783	ļ	(1)	0	(1)	0	8,781	0	0	0	399	11/16/2039	. 2.A FE
89656C-AA-1 89657B-AA-2	TRL 2010-1 NTS - RMBS		16/2021 17/2021	PaydownPaydown		54,064 61,800	54,064 61.800	56,359 58.807	55,636		(1,572)	0 n	(1,572)		54,064		0 n		1,976 1,574	10/16/2040 04/17/2049	. 1.F FE
89657B-AB-0	TRL 2019-2 A1 - RMBS			Pavdown		36 , 155		36,147	36,147			0	8	0		0	0		576	10/18/2049	1.F FE
89690E-AE-7	TRMF 2014-1 A2 - RMBS			Call @ 100.00		(2,460)	0	0	0	0	0	0	0	0	0	0	0	0	(2,460)	04/15/2044	. 1.F FE
898203-AA-2	TFINS 2017-2 A1 - CD0			Paydown		75,000	75,000	73,500	73,610	0	1,390	0	1,390	0	75,000	0	0	0	999	09/20/2039	. 1.D FE
89822P-AA-1	TFINS 201 A1 - CD0			Paydown		76,644				0	0	0	0	0		0	0	0	2,404		. 1.0 FE
898813-AK-6 90352W-AD-6	TUCSON ELECTRIC POWER CO			Call @ 100.00		1,000,000	1,000,000 17,438	996 , 820	999,677	0	235	0	235	0	999,911	0	89	89	39,340		. 1.G FE
	UNITED AIR LINES INC 2007 1 PASS THROUGH			PaydownPaydown		17,438	43,760		43,218	0	542	0	542	0	17,438	0	0	0	2,904	02/28/2051 01/02/2024	
	UNITED AIRLINES 2015-1 PASS THROUGH TRUS			Paydown		0	0	0	0,210	0	0	0	0	0	0	0	0	0	2,304	06/01/2029	
90932Q-AA-4	UNITED AIRLINES 2014-2 PASS THROUGH TRUS			Paydown		27,581	27,581	27,581	27,588	0	(8)	0	(8)	0	27,581	0	0	0	1,034	03/03/2028	2.A FE
91823G-AA-6	VCO 181 A - CDO			Paydown		1,865,946	1,865,946	1,861,719	1,862,088	0	3,858	0	3,858		1,865,946	0	0	0	24,419	07/20/2030	. 1.A FE
91823G-AC-2	VCO 181 B - CDO			Paydown		1,500,000	1,500,000	1,499,940	1,500,017	0	(17)	0	(17)	00	1,500,000	0	0	0	60,370	07/20/2030	. 1.0 FE
92212K-AA-4 92925V-AF-7	VDC 2019-1 A2 - ABS			Paydown		2,500 31,916	2,500 31,898	2,500 29,166	2,500 31,524	0	0	0	0	0	2,500	0	0	0	53	07/15/2044 02/25/2037	. 1.G FE
92925V-AF-7	WAMU 2007-HY1 2A3 - CMO/RMBS			PaydownPaydown			096,اد	29, 100 N	1,524 کی					0	ا 9۱۶,۱۵	0	0			02/25/2037	. 1.D FM
92936C-AJ-8	WFRBS 2011-C4 A4 - CMBS			Paydown		0	7,730	7.847	7,719	0	(7,719)	0	(7.719)	0	0	0	0	0	189	.06/17/2044	1.D FM
93363P-AC-4	WAMU 2006-AR14 1A3 - CMO/RMBS		01/2021	Paydown		87,840	87,944			0	1,218	0	1,218	0	87,840	0	0	0	1,557	11/25/2036	. 3.B FM
93934N-AR-6	WMALT 2006-5 2C2 - CMO/RMBS			Paydown		3, 109	4,049	0	2,878	0	231	0	231	0	3, 109	0	0	0	20	07/25/2036	. 1.D FM
94989Y-AY-9 95002F-AA-2	WFCM 2016-C32 A3 - CMBS			Paydown		5,035	5,035	5,085	5,059	0	(24)	0	(24)		5,035	0	0	0	111	01/17/2059	. 1.D FM
95002F-AA-2 95002K-AA-1	WFMBS 2019-4 A1 - CMO/RMBS			PaydownPaydown		344,609	341,514 53.382	347,597 54.016	349,480	0	(4,871) (224)	0	(4,871)		344,609		0	0	7,855 1.070		. 1.D FM
	WEN 2019-1 A21 - RMBS			Paydown		37,500	37,500	37,500	37,500	0	0	0	0	0	37,500	0	0	0	1,064		2.B FE
96034L-AA-9	WESTR 201 A - RMBS		01/2021	Paydown		75,580	75,580	75,481		0	44	0	44	0	75,580	0	0	0	1,370	03/20/2034	. 1.A FE
96928*-CQ-8	WILLIAM BLAIR & CO, CTL PASS THROUGH TRU			Paydown		8,995	8,995	8,995	8,995	0	0	0	0	0	8,995	0	0	0	400	06/15/2033	. 2.B
96928*-CR-6 97064F-AA-3	WILLIAM BLAIR & CO, CTL PASS THROUGH TRU WESTF 2020-A A - ABS		15/2021 15/2021	Paydown		11,013	11,013	11,013	11,013	0	0	0	0	0	11,013	0	0	0	489 474	05/15/2034	. 2.B
97064F-AA-3	WSTOP 201 A2 - RMBS			Paydown		22,021			22,021					0			0		474		. 1.F FE . 2.B FE
	WIN 2014-1 A11 - CMO/RMBS			Paydown		23,389	23,389	23,243	23,255	0	135	0	135	0	23,389	0	0	0	588	06/20/2044	1.D FM
	ZCCP 2019-1 A2 - CD0			Call @ 100.00		2,000,000	2,000,000	1,660,000	1,711,817	0	51,253	0	51,253		1,763,070	0	236,930	236,930	35,358	07/16/2031	. 1.A FE
3899999. 9	Subtotal - Bonds - Industrial and Misce	ellaneous (Unaffilia	ited)		98,875,881	98,076,781	96, 156, 444	95,796,732	426	668,714	0	669, 139	0	97,852,908	0	670,180	670, 180	3,051,399	XXX	XXX
8399997.	Total - Bonds - Part 4			•		114,472,295	113,673,195	111,772,050	110,700,691	426	637,533	0	637,959	0	113,434,435	0	685,067	685,067	3,603,357	XXX	XXX
8399998.	Total - Bonds - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
8399999.	Total - Bonds					114,472,295	113,673,195	111,772,050	110,700,691	426	637,533	0	637,959	0	113,434,435	0	685,067	685,067	3,603,357	XXX	XXX
8999997.	Total - Preferred Stocks - Part 4					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
8999998.	Fotal - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
	Total - Preferred Stocks					0	XXX	0		0	0		0		0	0		0	0	XXX	XXX
	Total - Common Stocks - Part 4					0	XXX	0	0	0	0	0	0		0	0	0	0	0	XXX	XXX
	Total - Common Stocks - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
	Fotal - Common Stocks					0	XXX	0	0	0	0	0	0	_	0	0		0	0	XXX	XXX
	Total - Preferred and Common Stocks					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX
9999999 -	Totals					114,472,295	XXX	111,772,050	110,700,691	426	637,533	0	637,959	0	113,434,435	0	685,067	685,067	3,603,357	XXX	XXX
						,, 2,200	,,,,	,,000	,,.	iEO	55.,500	·			,, 100		555,001	555,561	0,000,007	,,,,,	,,,,,

Showing all Ontions Cans	Floors Collars Sv	vans and Forwards One	en as of Current Statement D	ate
SHOWING All Options, Caps,	i luulo, Gullaio, Sv	vaps and i diwards Opt	ch as of Guilent Statement D	aic

				Sh	nowing a	all Options	s, Caps, Flo	oors, Colla	rs, Swaps	and Forwai	rds Open as	of Currer	nt Stateme	nt Date								
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
	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	5	Refer-	and at
Decemention	Generation	Exhibit	Risk(s)	Exchange, Counterparty	Trade Date	or	Of Combined to	Notional	Received	(Received)	(Received) Paid	Year	Carrying	0-4-	Fair Malue	Increase/	Change in B./A.C.V.	zation)/	Hedged	Potential Exposure	ence Entity	Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse		Expiration	Contracts	Amount	(Paid)	Paid		Income	Value		Fair Value	(Decrease)	B./A.C.V.	Accretion	Item			(b)
				Excluding Variable Annuity Guarantees			8			0		0	0	XXX	0	0	0	0	0		XXX	XXX
0149999999. Sui	EQUITY INDEX PRODUCTS	lions - Heag	ing Enective	e Variable Annuity Guarantees Under SS	SAP NO. IL	J8 I				0	0	0	U	XXX	0	0	0	0	U	0	***	***
EQUITY INDEX OPTIONS	EQUITE TRUEX PRODUCTS	N/A	Δ	WELLS FARGO 1	10/06/2020	10/06/2021 .		6,973,193	3360.95	138,767			251,032		251,032	43,291						0002
EGOTTI THEEX OF TIONS	EQUITY INDEX PRODUCTS		^	CHICAGO BOARD OF	10/00/2020 .	. 10,00,2021 .																2000
EQUITY INDEX OPTIONS		N/A	Α		10/06/2020 .	10/06/2021 .		2,352,665	3360.95	27,079			47,053		47,053	11,150						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																		
EQUITY INDEX OPTIONS		N/A	Α		10/06/2020 .	10/06/2021 .	ļ	7,730,185	3360.95	130,718			231,901		231,901	55,860						0002
FOULTY INDEX ODITIONS	EQUITY INDEX PRODUCTS	N1/4	١.	CHICAGO BOARD OF	10 (00 (0000	40 (00 (0004		0.040.570	0000 05	00.000			05 507		05 507	45 000						0000
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	10/06/2020 .	10/06/2021 .		2,016,570		36,926			65,537		65,537	15,862						0002
EQUITY INDEX OPTIONS	EQUITE INDEX PRODUCTS	N/A	Α		10/06/2020	10/06/2021 .		1,344,380	3360.95	26,366			47,052		47,052	11,445						0002
Eggin mack of mono	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF	.0,00,2020								, , , , , , , , , , , , , , , , , ,		, , , , , ,							
EQUITY INDEX OPTIONS		N/A	Α	EXCHANGE	10/06/2020 .	10/06/2021 .		1,344,380	3360.95	33,626			61,168		61,168	15,213						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																		
EQUITY INDEX OPTIONS		N/A	Α		10/06/2020 .	10/06/2021 .		1,680,475	3360.95	46,232			84,862		84,862	21,341						0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	NIZA		CHICAGO BOARD OF EXCHANGE	10 /00 /0000	10/06/2021 .		1,680,475	2200 05	49,087			90,744		90,744	23,001						0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/ A	A	CHICAGO BOARD OF	10/06/2020 .	10/06/2021 .		1,080,475	3360.95	49,087			90,744		90,744	23,001						0002
EQUITY INDEX OPTIONS	EQUITI INDEX INDUCTO	N/A	A		10/06/2020	10/06/2021 .		1,008,285	3360.95	32,476			61,000		61,000	15,695						0002
	EQUITY INDEX PRODUCTS																					
EQUITY INDEX OPTIONS		N/A	Α		10/20/2020 .	10/20/2021 .		6,326,326	3443 . 12	117,606			211,923		211,923	49,575						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																		
EQUITY INDEX OPTIONS	FOULTY INDEX PRODUCTO	N/A	Α		10/20/2020 .	10/20/2021 .		2,410,184	3443 . 12	27,982			47,901		47,901	12,271						0002
FOULTY INDEX ODITIONS	EQUITY INDEX PRODUCTS	NIZA		CHICAGO BOARD OF EXCHANGE	10/20/2020 .	10 /00 /0001		8,607,800	3443 . 12	147,285			256,480		256,480	67,221						0000
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/ A	A	CHICAGO BOARD OF	10/20/2020 .	10/20/2021 .		8,607,800	3443.12	147 , 283			230,480		230,480							0002
EQUITY INDEX OPTIONS	EQUITI INDEX INDUCTO	N/A	A		10/20/2020 .	10/20/2021 .		1,721,560	3443 . 12	31,697			55,563		55,563	14,647						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF				, ,		, .						,						
EQUITY INDEX OPTIONS		N/A	Α	EXCHANGE	10/20/2020 .	10/20/2021 .		1,377,248	3443 . 12	27,974			49,228		49,228	13,082						0002
	EQUITY INDEX PRODUCTS		١.	L																		
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	10/20/2020 .	10/20/2021 .		1,637,921	3443 . 12	36,689			65,035		65,035	17,444						0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	۸.		10/20/2020 .	10/20/2021 .		2,065,872	3443 . 12	57,248			103,491		103,491	28,449						0002
EQUITE INDEX OF HUNO	EQUITY INDEX PRODUCTS	IV A	/·	LAGISTICE	10/20/2020 .	10/20/2021 .	<u> </u>	2,000,072	12	40, الا			100,491		100,431	20,449						0002
EQUITY INDEX OPTIONS	Eugen massard	N/A	Α	BARCLAYS1	11/06/2020 .	11/05/2021 .		7,909,408	3509.44	147,431			268,899		268,899	75,469						0002
	EQUITY INDEX PRODUCTS	1		CHICAGO BOARD OF			[T	***										
EQUITY INDEX OPTIONS		N/A	Α		11/06/2020 .	11/05/2021 .	ļ ļ.	3,509,440	3509.44	40,394			68,352		68,352	18,201						0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	١,	CHICAGO BOARD OF EXCHANGE	11/06/2020 .	11/05/2021 .		8.773.600	3509.44	140 010			251.731		251.731	68.497						0002
EQUIT INDEX OPTIONS	EQUITY INDEX PRODUCTS	IN/A	Λ	CHICAGO BOARD OF	11/00/2020 .	11/05/2021 .	·			146,610			251,/31		251,/31							0002
EQUITY INDEX OPTIONS	EXOLL HINTY LUONO[9	N/A	A		11/06/2020 .	11/05/2021 .		3,509,440	3509.44	66,014			114,282		114,282	31,383						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF	, 55, 2520 .	, 00, 2021 .		, 000, 110					, 202									
EQUITY INDEX OPTIONS		N/A	Α		11/06/2020 .	11/05/2021 .		1,052,832	3509.44	25,912			45,975		45,975	12,966						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																		
EQUITY INDEX OPTIONS		N/A	Α		11/06/2020 .	11/05/2021 .		2,456,608	3509.44	67,581			121,460		121,460	34,738						0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	١,	CHICAGO BOARD OF EXCHANGE	11/06/2020 .	11/05/2021 .		1,052,832	3509.44	32,860			60 , 137		60 , 137	17,526						0002
LQUITT INDEX OPTIONS	EQUITY INDEX PRODUCTS	IV A	Λ	LAU INIVIL	11/00/2020 .	11/03/2021 .	·····	1,002,832		32,860						17,320						0002
EQUITY INDEX OPTIONS	Lagrii iibLx iiibboolo	N/A	Α	BNP PARIBAS NY	11/20/2020	.11/19/2021 .		5,893,643	3557.54	106,086			194,469	l	194,469	62,540						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																		
EQUITY INDEX OPTIONS		N/A	Α		11/20/2020 .	11/19/2021 .		2,846,032	3557 . 54				54,479		54,479	14,860						0002
FOULTY INDEX OFFICE	EQUITY INDEX PRODUCTS	I	l.	CHICAGO BOARD OF	44 (00 (0000	44 (40 (000)		7 000 555	0557	100 00-			040 0		640.055	20.47-						0000
EQUITY INDEX OPTIONS	EQUITY INDEX DOODINGS	N/A	Α		11/20/2020 .	11/19/2021 .	}	7,826,588	3557.54	129,985	}		216,889		216,889	60,417			-			0002
EQUITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N/A	Δ	CHICAGO BOARD OF EXCHANGE	11/20/2020 .	11/19/2021 .		1,423,016	3557.54	25,202			42, 138		42 , 138	11,793						0002
EGOTTI TRUEN OF ITONO	EQUITY INDEX PRODUCTS	14 A	^	CHICAGO BOARD OF	11,20,2020 .		·	1,720,010		20,202												000E
EQUITY INDEX OPTIONS		N/A	Α		11/20/2020	11/19/2021 .	<u> </u>	1,778,770	3557.54	35,057	<u> </u>	<u></u>	59,424	<u> </u>	59,424	16,789		<u></u>		<u></u>		0002

Showing all Ontions	Cans Floors	Collars, Swaps and Forw	ards Open as of Cur	rent Statement Date
SHOWING All ODUONS.	. Caps. I louis.	Culais. Swabs aliu i ulw	iaius Obell as di Gui	Terri Staterrieri Date

				Showir	g all Option	ns, Caps, Fl	loors, Colla	rs, Swaps	and Forwa	rds Open as	s of Currei	nt Stateme	nt Date	;							
1	2	3	4	5 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
									Cumulative												i
									Prior	Current											i
	Description							Ot-il	Year(s)	Year Initial										0	
	of Item(s)							Strike Price,	Initial Cost of Un-	Cost of Un-						Total	Current	Adjustment		Credit Quality	Hedge Effectiveness
	Hedged, Used for		Type(s)		Date of			Rate or	discounted	discounted		Book/			Unrealized	Foreign	Current 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 Trad		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			Amount	(Paid)	Paid	Paid	Income	Value	Code	Fair Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
•	EQUITY INDEX PRODUCTS		, ,	CHICAGO BOARD OF				, ,											•		
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2011/19/2021		1,067,262	3557 . 54	27, 118			46,757		46,757	13,561						0002
FOLLITY INDEX ODITIONS	EQUITY INDEX PRODUCTS	NIZA		CHICAGO BOARD OF	11/10/0001		1 400 010	0557 54	20, 000			67 700		67 700	10,000						0000
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/ A	A	EXCHANGE	2011/19/2021	+	1,423,016	3557.54	38,862			67,706		67,706	19,826						0002
EQUITY INDEX OPTIONS .	EQUITE INDEX FRIDDOOTS	N/A	A	EXCHANGE	2011/19/2021		1,423,016	3557.54	43,274			76,397		76,397	22,748						0002
	EQUITY INDEX PRODUCTS						, ,		,												
EQUITY INDEX OPTIONS.		N/A	Α	BARCLAYS	2012/06/2021		7,424,420	3699 . 12	134,382			248,682		248,682	113,751						0002
FOULTY INDEX OFFICE	EQUITY INDEX PRODUCTS	I	l.	CHICAGO BOARD OF	10 100 100 1		0.500.05	2000 :-	20 2					47 /	15.000						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	2012/06/2021		2,589,384	3699 . 12	30,320			47,431		47,431	15,928						0002
EQUITY INDEX OPTIONS .	EQUITE INDEX PRODUCTS	N/A	Α	EXCHANGE 12/04/2	2012/06/2021		9,247,800	3699.12	155,460			248,692		248,692	85,964						0002
Equity History of Hono .	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF	1, 00, 202 .																
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2012/06/2021		1,479,648	3699 . 12	26,354			42,445		42,445	14,750						0002
	EQUITY INDEX PRODUCTS		١.	CHICAGO BOARD OF																	i l
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	2012/06/2021		2,219,472	3699 . 12	44,858			72,589		72,589	25,517						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	EXCHANGE	2012/06/2021		1,849,560	3699.12	46,627			76,862		76,862	27,668						0002
EQUITI THEEX OF TIONS .	EQUITY INDEX PRODUCTS		A	CHICAGO BOARD OF	20 1112/00/2021		,040,000							70,002							1
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	2012/06/2021		2,219,472	3699 . 12	59,726			99,075		99,075	35,966						0002
	EQUITY INDEX PRODUCTS		١.	CHICAGO BOARD OF																	i l
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	2012/06/2021		1, 109, 736	3699 . 12	31,639			52,960		52,960	19,397						0002
EQUITY INDEX OPTIONS .	EQUITE INDEX PRODUCTS	N/A	Α	WELLS FARGO	2012/20/2021		6,029,353	3709.41	113,352			201,948		201,948	93,547						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF	1																
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2012/20/2021		2,225,646	3709.41	26,510			40,077		40,077	13,222						0002
FOLLITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N1/4	١.	CHICAGO BOARD OF	10 (00 (0004		7 700 704	0700 44	400.075			005 000		005 000	00 007						0000
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	2012/20/2021		7,789,761	3709.41	133,275			205,883		205,883	69,837						0002
EQUITY INDEX OPTIONS .	EQUITI INDEX THOODOTO	N/A	A	EXCHANGE	2012/20/2021		1,483,764	3709.41	27,466			42,482		42,482	14,504						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF			,,		, , , , , ,			, , , , ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2012/20/2021		1,483,764	3709.41	30,582			47,687		47,687	16,444						0002
FOLLITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	N1/4	١.	CHICAGO BOARD OF	10 (00 (0004		4 440 000	0700 44	00.047			47,070		47,070	47.004						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	IN/ A	A	EXCHANGE	2012/20/2021	†	1, 112,823	3709.41	29,947	·		47,870		47,870	17,021						0002
EQUITY INDEX OPTIONS .	Lagarii iibLx iiibboolo	N/A	Α	EXCHANGE	2012/20/2021		1, 112,823	3709.41	32,395			52,214		52,214	18,784						0002
	EQUITY INDEX PRODUCTS	1		CHICAGO BOARD OF									1								
EQUITY INDEX OPTIONS .	FAULTY INDEX PROPULES	N/A	Α	EXCHANGE	2012/20/2021	+	1,854,705	3709.41	58,812			95,809		95,809	34,947						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	ROYAL BANK OF CANADA	2101/06/2022		6,797,022	3748.14		124.386		227,648		227,648	103,263						0002
LUCITI INDLA UTITUNO .	EQUITY INDEX PRODUCTS	W A	······································	CHICAGO BOARD OF			0,131,022	14 . نام الر		124,000				221,040	100,200						0002
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2101/06/2022	.	2,998,512	3748 . 14		36,011		52,686		52,686	16,675			ļ			0002
	EQUITY INDEX PRODUCTS	l	l.	CHICAGO BOARD OF																	l
EQUITY INDEX OPTIONS.	FOULTY INDEX DOODUCTO	N/A	Α	EXCHANGE	2101/06/2022		7,871,094	3748 . 14		133 , 107		199,506		199,506							0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	EXCHANGE	2101/06/2022		1,874,070	3748.14		33,752		50,717		50,717	16,965						0002
EQUITY THEEX OF TIONS .	EQUITY INDEX PRODUCTS		^	CHICAGO BOARD OF	1.01/00/2022	1	,074,070			50,702											1
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	2101/06/2022		1,499,256	3748 . 14		30,302		45,710		45,710	15,408						0002
FOULTY INDEX OBTIONS	EQUITY INDEX PRODUCTS		١.	CHICAGO BOARD OF			4 074 070	0740 44		44 407				20.700	04.050						
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	2101/06/2022	†	1,874,070	3748 . 14		41,437		62,790		62,790	21,353						0002
EQUITY INDEX OPTIONS .	FAOILL LINDEY LUODO(19	N/A	Α	MORGAN STANLEY	2101/06/2022	1	1,634,544	3748.14		42,989		65,948	l	65,948	22,960						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	2101/06/2022		1, 124, 442	3748 . 14		34,531		53,918		53,918	19,386						0002
EQUITY INDEX ODTIONS	EQUITY INDEX PRODUCTS	N/A		WELLS EADON	01/00/0000		E 000 704	0054.05		100 700		004 040		004 040	00.000						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	2101/20/2022	†	5,966,784	3851.85		109,789		201,848		201,848	92,060						0002
EQUITY INDEX OPTIONS .	Lagarii iibLx iiibboolo	N/A	Α	EXCHANGE	2101/20/2022	1	2,311,110	3851.85		27.518		39.331		39,331	11.813						0002

Showing all Ontions	Cane Floore	Collars, Swaps and Forwards Open as of Current Stat	omont Data
SHOWING All OPHONS	, Caps, Fibbis	Juliais, Swaps and Fulwards Open as of Current Stat	emeni Dale

					Showing a	all Options	s, Caps, Flo	oors, Colla	rs, Swaps	and Forwa	rds Open a	s of Curre	nt Statemer	nt Date								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Description .	Description of Item(s) Hedged, Used for Income Generation	Schedule/ Exhibit	Type(s) of Risk(s)	Exchange, Counterparty	Trade	Date of Maturity or	Number of	Notional	Strike Price, Rate or Index Received	Cumulative Prior Year(s) Initial Cost of Un- discounted Premium (Received)	Current Year Initial Cost of Un- discounted Premium (Received)	Current Year	Book/ Adjusted Carrying	0.4. 5	a la Malaca	Unrealized Valuation Increase/	Total Foreign Exchange Change in	Current Year's (Amorti- zation)/	Adjustment to Carrying Value of Hedged	Potential	Credit Quality of Refer- ence	Hedge Effectiveness at Inception and at Quarter-end
Description	or Replicated EQUITY INDEX PRODUCTS	Identifier	(a)	or Central Clearinghouse CHICAGO BOARD OF	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code Fa	air Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	01/20/2021	01/20/2022 .		6,933,330	3851.85		117,223		170,284		170,284	53,060						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	01/20/2021	01/20/2022 .		1,540,740	3851.85		28,054		41,040		41,040	12,986						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	01/20/2021	01/20/2022 .		2,311,110	3851.85		47 , 858		70 , 147		70 , 147	22,289						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	01/20/2021	01/20/2022 .		1, 155, 555	3851.85		30 , 169		44,961		44,961	14,791						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	01/20/2021	01/20/2022 .		2,311,110	3851.85		65,882		99, 198		99, 198	33,315						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	02/05/2021 .	02/04/2022 .		6,409,045	3886.83		114,081		208,471		208,471	94,390						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGECHICAGO BOARD OF	02/05/2021 .	02/04/2022 .		3, 109, 464	3886.83		36,411		52,288		52,288	15,877						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	02/05/2021 .	02/04/2022 .		9,328,392	3886.83		157,738		229,767		229,767	72,029						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	MORGAN STANLEY	02/05/2021 .	02/04/2022 .		1,779,175	3886.83		32,381				47 , 445	15,064						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	02/05/2021 .	02/04/2022 .		1,716,187	3886.83		34,839		51,325		51,325	16,486						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYSCHICAGO BOARD OF	02/05/2021 .	02/04/2022 .		1,202,667	3886.83		30,427		45, 102		45, 102	14,675						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	02/05/2021 .	02/04/2022 .		1, 166,049	3886.83		31, 144		46,491		46,491	15,346						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	02/05/2021 .	02/04/2022 .		1,410,192	3886.83		39,485		58,992		58,992	19,506						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	02/05/2021 .	02/04/2022 .		987,202	3886.83		31,590		47,801		47,801	16,211						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	02/19/2021 .	02/18/2022 .		6, 197, 613	3906.71		112,487		197,940		197,940	85,453						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BNP PARIBAS NY CHICAGO BOARD OF	02/19/2021 .	02/18/2022 .		2,366,787	3906.71		27,691		39,416		39,416	11,725						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGECHICAGO BOARD OF	02/19/2021 .	02/18/2022 .		7,032,078	3906.71		119,617		171,518		171,518	51,900						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	02/19/2021 .	02/18/2022 .		1, 172,013	3906.71		21,577		30,948		30,948	9,371						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	02/19/2021 .	02/18/2022 .		1,562,684	3906.71		32,518		46,898		46,898	14,380						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	CHICAGO BOARD OF	02/19/2021 .	02/18/2022 .		924,796	3906.71		21,640		31,425		31,425	9,785						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	02/19/2021	02/18/2022 .		1, 172,013	3906.71		29,428		43,055		43,055	13,626						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	CITIBANK	02/19/2021 .	02/18/2022 .		2, 100, 130	3906.71		61,744		91,023		91,023	29,279						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	03/05/2021	03/04/2022 .		6, 118, 765	3841.94		110,750		201,718		201,718	90,968						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	MORGAN STANLEY CHICAGO BOARD OF	03/05/2021 .	03/04/2022 .		2,613,383	3841.94		30,315		42,438		42,438	12, 122						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	03/05/2021	03/04/2022 .		7,683,880	3841.94		129, 168		183,021		183,021	53,853						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	MORGAN STANLEY	03/05/2021 .	03/04/2022 .		1,227,938	3841.94		22,594		32, 156		32,156	9,562						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	03/05/2021	03/04/2022 .		1,091,050	3841.94		21,537		30,715		30,715	9, 177						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	03/05/2021 .	03/04/2022 .		1,572,909	3841.94		33,928		48,581		48,581	14,654						0002
EQUITY INDEX OPTIONS.		N/A	Α	BARCLAYS	03/05/2021 .	03/04/2022 .	L	1,278,417	3841.94		31,807	l	45,917		45,917	14,110			L			0002

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				\$	Showing a	all Options	s, Caps, Flo	ors, Colla	rs, Swaps	and Forwa	rds Open a	s of Curre	nt Stateme	nt Date								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bushin	Description of Item(s) Hedged, Used for Income Generation	Schedule/ Exhibit	Type(s) of Risk(s)	Exchange, Counterparty	Trade	Date of Maturity or	Number of	Notional	Strike Price, Rate or Index Received	Cumulative Prior Year(s) Initial Cost of Un- discounted Premium (Received)	Current Year Initial Cost of Un- discounted Premium (Received)	Current Year	Book/ Adjusted Carrying	0.4. 5	- Valor	Unrealized Valuation Increase/	Total Foreign Exchange Change in	Current Year's (Amorti- zation)/	Adjustment to Carrying Value of Hedged	Potential	Credit Quality of Refer- ence	Hedge Effectiveness at Inception and at Quarter-end
Description	or Replicated EQUITY INDEX PRODUCTS	Identifier	(a)	or Central Clearinghouse CHICAGO BOARD OF	Date	Expiration	Contracts	Amount	(Paid)	Paid	Paid	Income	Value	Code Fa	air Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	03/05/2021	03/04/2022 .		1,920,970	3841.94		55,727		81,444		81,444	25,717						0002
EQUITY INDEX OPTIONS .		N/A	Α	BARCLAYS	03/19/2021	03/18/2022 .		6,452,179	3913.1		114,591		203,655		203,655	89,065						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		2,347,860	3913.1		27,326		37,076		37,076	9,750						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		7,434,890	3913.1		124,895		171,715		171,715	46,820						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		1,956,550			36,547		50,386		50,386	13,839						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		1, 173, 930	3913.1		23, 137		32,003		32,003							0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		1, 173,930	3913.1		25,273		35,086		35,086	9,813						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	03/19/2021	03/18/2022 .		1,028,434	3913.1		25,762		36,075		36,075	10,313						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	03/19/2021	03/18/2022 .		1, 173, 930			32,539		45,897		45,897	13,357						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	04/06/2021	04/06/2022 .		7,861,156	4073.94		131, 124		207,090		207,090	75,966						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022 .		2,851,758	4073.94		32,931		41,348		41,348	8,417						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022 .		10,999,638	4073.94		182,666		232,344		232,344	49,678						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022 .		2,036,970	4073.94		38,512		49,287		49,287	10,775						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022		1,629,576	4073.94		33,662		43,276		43,276	9,614						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022 .		1,222,182	4073.94		27,349		35,309		35,309	7,959						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022		814,788	4073.94		21,117		27,537		27,537	6,420						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	CHICAGO BOARD OF EXCHANGE	04/06/2021	04/06/2022		1,222,182	4073.94		35,710		47 , 138		47 , 138	11,428						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	04/20/2021	04/20/2022 .		6,909,399	4134.94		122,296		157,588		157 , 588	35,292						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	04/20/2021	04/20/2022 .		2,638,474	4134.94		30,685		36,830		36,830	6, 145						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF	04/20/2021	04/20/2022		8,269,880	4134.94		145, 108		176,022		176,022	30,913						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	04/20/2021	04/20/2022 .		1,653,976	4134.94		32,414				39,499	7,085						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	CHICAGO BOARD OF EXCHANGE	04/20/2021	04/20/2022 .		1,240,482	4134.94		25,909		31,613		31,613	5,704						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF	.04/20/2021	04/20/2022		1,653,976	4134.94		36,218		44,255		44,255	8,038						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	WELLS FARGO	04/20/2021	04/20/2022 .		2,500,949	4134.94		66,850		82,407		82,407							0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	WELLS FARGO	05/06/2021	05/06/2022 .		8,461,296	4201.62		148,073		175,474		175,474	27,401						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	MORGAN STANLEY	05/06/2021	05/06/2022 .		2,488,027	4201.62		28,861				33,213	4,352						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	.05/06/2021	.05/06/2022		8,823,402	4201.62		145,308		168, 102		168 , 102	22,795						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	CHICAGO BOARD OF EXCHANGE	05/06/2021	05/06/2022 .		2, 100,810	4201.62		40,647				47 , 123	6,476						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	CHICAGO BOARD OF EXCHANGE	05/06/2021			2, 100,810	4201.62				40,741		40,741	5,476						0002
EXOTTE THULK UPITUNO.		I'V /	(*	LAGIENIOL	1.00/00/2021	.1.00/00/2022 .		1,000,040		h	,014 ولا	L							.			000L

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				;	Showing a	all Options	s, Caps, Fl	oors, Colla	irs, Swaps	and Forwa	rds Open as	of Curre	nt Stateme	nt Date	:							
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										Cumulative Prior	Current											i
	Description									Year(s)	Year Initial											i
	of Item(s)								Strike	Initial Cost	Cost of										Credit	Hedge
	Hedged,								Price,	of Un-	Un-					l	_Total	Current	Adjustment			Effectiveness
	Used for Income	Schedule/	Type(s) of			Date of Maturity	Number		Rate or Index	discounted Premium	discounted Premium	Current	Book/ Adjusted			Unrealized Valuation	Foreign Exchange	Year's (Amorti-	to Carrying Value of		of Refer-	at Inception 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)
ENLITY INDEX OBTIONS	EQUITY INDEX PRODUCTS	N/A	,	CHICAGO BOARD OF EXCHANGE	05 /06 /0001	05/06/2022		1,680,648	4201.62		26 770		40 740		42,748	E 070						0000
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/ A	A	CHICAGO BOARD OF	05/06/2021 .	05/06/2022 .		1,000,040	4201.02		36,770		42,748		42,740	5,978						0002
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	05/06/2021 .	05/06/2022 .		2, 100,810	4201.62		49,072		57 , 154		57 , 154	8,082						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	۸	WELLS FARGO	05/06/2021 .	05/06/2022 .		1,667,383	4201.62		50 , 188		59,038		59,038							0002
EQUITI INDEX GITTONO .	EQUITY INDEX PRODUCTS	N/ A	n	WELES TAILOS		03/00/2022 .		1,007,000														0002
EQUITY INDEX OPTIONS.		N/A	Α	WELLS FARGO	05/20/2021 .	05/20/2022 .		6,530,323	4159.12		118,852		144,298		144,298	25,446						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	CHICAGO BOARD OF EXCHANGE	05/20/2021 .	05/20/2022 .		2,079,560	4159.12		24,847		29,432		29,432	4,585						0002
	EQUITY INDEX PRODUCTS		***************************************	CHICAGO BOARD OF									·									
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	05/20/2021 .	05/20/2022 .		6,238,680	4159.12		103,371		123,367		123,367	19,995						0002
EQUITY INDEX OPTIONS .	LYOTH INDEX FRODUCTS	N/A	Α	EXCHANGE	05/20/2021 .	05/20/2022 .		2,495,472	4159.12		48,506		58,214		58 , 214	9,708						0002
	EQUITY INDEX PRODUCTS																					
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	WELLS FARGO	05/20/2021 .	05/20/2022 .		902,025	4159.12		18,906		22,761		22,761	3,854						0002
EQUITY INDEX OPTIONS .	LQUITT THEEX THEEOUTE	N/A	Α	EXCHANGE	05/20/2021 .	05/20/2022 .		1,247,736	4159.12		28,060		33,830		33,830	5,770						0002
FOLLEY INDEX ODITIONS	EQUITY INDEX PRODUCTS	N/A		CHICAGO BOARD OF	05 (00 (0004	05 (00 (0000		004 004	4450 40		00 500		07 007		07 007	4.055						0000
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	05/20/2021 .	05/20/2022 .		831,824	4159.12		22,533		27,387		27,387	4,855						0002
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	05/20/2021 .	05/20/2022 .		2,079,560	4159.12		61,137		74,638		74,638	13,501						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	,	WELLS FARGO	06/04/2021 .	06/06/2022 .		9, 268, 170	4229.89		162, 193		181,098		181,098	18,905						0002
EQUITY INDEX OFTIONS .	EQUITY INDEX PRODUCTS	N/ A	A	WELLS FANGO	00/04/2021	00/00/2022 .		9,200,170	4229.09		102, 193		101,090		101,090	10,903	• • • • • • • • • • • • • • • • • • • •					0002
EQUITY INDEX OPTIONS .		N/A	Α	WELLS FARGO	06/04/2021 .	06/06/2022 .		2,656,339	4229.89		32, 142		34,209		34,209	2,068						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	BARCLAYS	06/04/2021 .	06/06/2022 .		7,487,197	4229.89		124,812		134,726		134,726	9,914						0002
	EQUITY INDEX PRODUCTS		**																			
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	06/04/2021 .	06/06/2022 .		3,206,957	4229.89		61,862		67, 105		67 , 105	5,243						0002
EQUITY INDEX OPTIONS .		N/A	Α	BARCLAYS	06/04/2021 .	06/06/2022 .		1,378,514	4229.89		29,045		31,624		31,624	2,579						0002
	EQUITY INDEX PRODUCTS																					
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	06/04/2021 .	06/06/2022 .		1, 178, 997	4229.89		26,032		28,389		28,389	2,357						0002
EQUITY INDEX OPTIONS .		N/A	Α	BARCLAYS	06/04/2021 .	06/06/2022 .		1,386,976	4229.89		39,543		43,684		43,684	4, 142						0002
ENHITY INDEX ODTIONS	EQUITY INDEX PRODUCTS	N/A	,	WELLS EADOO	06 (04 (0004	06/06/0000		2 400 000	4000 00		100 554		444 050		111 050	44 000						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	n	WELLS FARGO	06/04/2021 .	06/06/2022 .	·····	3, 182,090	4229.89		100,554		111,856		111,856	11,302						0002
EQUITY INDEX OPTIONS.		N/A	Α	BARCLAYS	06/18/2021 .	06/20/2022 .		8,024,842	4166.45		147,978		170,571		170,571	22,593						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	CHICAGO BOARD OF EXCHANGE	06/18/2021	06/20/2022 .		1,666,580	4166.45		19,996		22,003		22,003	2,007						0002
	EQUITY INDEX PRODUCTS	IN/ Γ	^^																			
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	06/18/2021 .	06/20/2022 .		1,358,935	4166.45		17, 123		18,812		18,812	1,689						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	A	WELLS FARGO	06/18/2021	06/20/2022		9,024,258	4166.45		164,241		181,729		181,729	17,488						0002
	EQUITY INDEX PRODUCTS											***************************************										
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BNP PARIBAS NY CHICAGO BOARD OF	06/18/2021 .	06/20/2022 .		1,980,589	4166.45		40,206		44,772		44,772	4,566						0002
EQUITY INDEX OPTIONS .	EGOTTI INDEX FRODUCTO	N/A	Α	EXCHANGE	06/18/2021	06/20/2022	ļ	2,083,225	4166.45		45,640		50,928		50,928	5,288						0002
FOULTY INDEX ODTIONS	EQUITY INDEX PRODUCTS	N/A	,	CHICAGO BOARD OF	00 /40 /0004	00 (00 (0000		0 000 005	4400 45		47.005		E0 004		E0 004	F F00						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	EXCHANGE	06/18/2021 .	06/20/2022 .		2,083,225	4166.45		47,265		52,831		52,831	5,566	• • • • • • • • • • • • • • • • • • • •					0002
EQUITY INDEX OPTIONS.		N/A	Α	WELLS FARGO	06/18/2021	06/20/2022 .		1,073,710	4166.45		27,702		31,100		31,100	3,398						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Δ	WELLS FARGO	06/18/2021 .	06/20/2022 .		950,506	4166.45		26, 139		29,494		29,494	3,355						0002
LYUIII INDEX UPIIUNS .	EQUITY INDEX PRODUCTS	IN/ A	^	IILLES I ANGU	00/10/2021	00/20/2022 .					20, 139		29,494		29,494		• • • • • • • • • • • • • • • • • • • •		•			0002
EQUITY INDEX OPTIONS.		N/A	Α	BARCLAYS	07/06/2021	07/06/2022 .	L	7,568,358	4343.54		137,971		119,318		119,318	(18,653)						0002

	Showing all Options.	Caps, Floors,	Collars, Swaps an	d Forwards Open	as of Current Statement Date
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					Showing a	all Options	s, Caps, Floors,	, Collars,	, Swaps a	and Forwai	ds Open a	s of Curre	nt Stateme	nt Date								
1	2	3	4	5	6	7	8 9	9	10	11 Cumulative Prior	12 Current	13	14	15	16	17	18	19	20	21	22	23
	Description of Item(s) Hedged, Used for		Type(s)			Date of			Strike Price, Rate or	Year(s) Initial Cost of Un- discounted	Year Initial Cost of Un- discounted		Book/			Unrealized	Total Foreign	Current Year's	Adjustment to Carrying		Credit Quality of	Hedge Effectiveness at Inception
	Income Generation	Schedule/ Exhibit	of Risk(s)	Exchange, Counterparty	Trade	Maturity	Number of Noti		Index Received	Premium (Received)	Premium (Received)	Current Year	Adjusted Carrying			Valuation Increase/	Exchange Change in	(Amorti- zation)/	Value of Hedged	Potential	Refer- ence	and at Quarter-end
Description	or Replicated	Identifier	(a)	or Central Clearinghouse	Date	Expiration			(Paid)	Paid	Paid	Income	Value	Code Fair	Value	(Decrease)	B./A.C.V.	Accretion	Item	Exposure	Entity	(b)
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	07/06/2021	07/06/2022 .	2,	, 119, 518	4343.54		25,222		24,653		. 24,653	(569)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	07/06/2021	07/06/2022 .	1,	, 129 , 848	4343.54		14, 123		13,770		13,770	(353)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	07/06/2021	07/06/2022 .	8,	,759 , 158	4343.54		159,417		156,533		. 156 , 533	(2,884)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	WELLS FARGO	07/06/2021	07/06/2022 .	1,	,415,775	4343.54		28,740		28,257		. 28 , 257	(483)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	07/06/2021 .	07/06/2022 .	1,	,618 , 142	4343.54		35,389		34,783		34,783	(605)						0002
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS CHICAGO BOARD OF	07/06/2021	07/06/2022 .	1,	,330 ,584	4343.54		31,428		30,946		30,946	(482)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	07/06/2021 .	07/06/2022 .	1,	, 303 , 062	4343.54		34,662		34,448		34 , 448	(214)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	SOCIETE GENERALE	07/20/2021	07/20/2022 .		,029,991	4323.06		135,679		116,473		116,473	(19,206)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	07/20/2021 .	07/20/2022 .		,971,542	4323.06		24,112		24,086		24,086	(26)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	07/20/2021	07/20/2022 .		,206,983	4323.06		166,646		166,590		166,590	(56)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	07/20/2021	07/20/2022 .		,696 , 304	4323.06		34,316		34,368		34,368	51						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	07/20/2021	07/20/2022 .		,420 ,624	4323.06		30,955		31,052		31,052	97						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	BARCLAYS	07/20/2021 .	07/20/2022 .		,097 , 112	4323.06		26,210		26,277		26,277							0002
EQUITY INDEX OPTIONS . EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	07/20/2021 .	07/20/2022 .		, 121,026	4323.06		28 , 183				28,292	110						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Δ	BARCLAYS	07/20/2021	07/20/2022 .		,355,621	4323.06		41,536		41,933		41,933							0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	08/06/2021	08/05/2022 .		,602,011	4436 . 52		121,081		84,486		84,486	(36,595)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	08/06/2021	08/05/2022 .		,740,140	4436.52		20,708				18,733	(1,975)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	A	CHICAGO BOARD OF EXCHANGE	08/06/2021	08/05/2022 .		,760 ,344	4436 . 52		167,112		151,274		.151,274	(15,838)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	08/06/2021	08/05/2022 .		.887,304	4436.52		16,602				15,031	(1,571)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	08/06/2021	08/05/2022 .	1,	, 330 , 956	4436.52		26,661		24, 117		24,117	(2,544)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE	08/06/2021	08/05/2022 .	1,	, 330 , 956	4436.52		28,365		25,664		25,664	(2,701)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	CHICAGO BOARD OF EXCHANGE CHICAGO BOARD OF	08/06/2021	08/05/2022 .	1,	, 330 , 956	4436.52		29,709		26,883		. 26 , 883	(2,826)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE CHICAGO BOARD OF	08/06/2021	08/05/2022 .	1,	, 330 , 956	4436.52		35,286		31,879		31,879	(3,407)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	08/06/2021	08/05/2022 .	2,	,218,260	4436.52		67,950		61,394		61,394	(6,556)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	BARCLAYS	08/20/2021	08/19/2022 .	6,	, 406 , 157	4441.67		116,592		81,457		81,457	(35, 135)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	08/20/2021	08/19/2022 .		,423 , 149	4441.67		17,505		15,742		15,742	(1,763)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	MORGAN STANLEY	08/20/2021	08/19/2022 .		,649,694	4441.67		113,045		101,864		.101,864	(11, 181)						0002
EQUITY INDEX OPTIONS.		N/A	Α	BARCLAYS	08/20/2021	08/19/2022 .	1,	,403,970	4441.67		27,026		24,220		. 24,220	(2,807)						0002

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

				Showin	g all Optior	ıs, Caps, Fl	oors, Colla	rs, Swaps a	and Forwa	rds Open as	s of Curre	nt Stateme	nt Date								
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
	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	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)
Description	EQUITY INDEX PRODUCTS	identifier	(α)	or ochtrar olcarnighouse Date	Expiration	Oontracts	Amount	(i aiu)	i aid	i alu	IIICOITIC	Value	Couc	i ali valuc	(Decrease)	D./A.O.V.	Acciction	ItCIII	LAPOSUIC	Litty	(6)
EQUITY INDEX OPTIONS .	EQUITE THEEX THOOGOTO	N/A	Α	MORGAN STANLEY08/20/20	108/19/2022		1,373,925	4441.67		27,891		25,005		25,005	(2,886)						0002
	EQUITY INDEX PRODUCTS						,,														
EQUITY INDEX OPTIONS .		N/A	Α	MORGAN STANLEY	108/19/2022		1,835,591	4441.67		40, 199		35,979		35,979	(4,221)						0002
	EQUITY INDEX PRODUCTS																				
EQUITY INDEX OPTIONS .		N/A	Α	BARCLAYS	2108/19/2022		2,281,502	4441.67		60,460		53,933		53,933	(6,526)						0002
ENULTY INDEX OPTIONS	EQUITY INDEX PRODUCTS			D. P. D. C. L. C.			0 444 500	4505 40		444.040		04 707		04 707	(50,005)						
EQUITY INDEX OPTIONS.	FOULTY INDEX DODUGTO	N/A	Α	BARCLAYS	2109/06/2022	-	6, 144, 502	4535 . 43		114,042		61,707		61,707	(52,335)						0002
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	٨	CHICAGO BOARD OF EXCHANGE	109/06/2022		1,360,629	4535.43		16,248		12,867		12,867	(3,382)						0002
EQUITE INDEX OFFICING.	EQUITY INDEX PRODUCTS	N/ A	^	CHICAGO BOARD OF	.109/00/2022		1,300,023					12,007		12,007	(0,002)						0002
EQUITY INDEX OPTIONS .	EQUITY THEEX THOSOUTO	N/A	A	EXCHANGE	109/06/2022		907,086	4535.43		11,340				8,981	(2,359)						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																	
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	109/06/2022		6,803,145	4535.43		115,245		90,874		90,874	(24,371)						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																	
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	2109/06/2022		2,721,258	4535 . 43		54,072		42,530		42,530	(11,542)						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																	
EQUITY INDEX OPTIONS .	FOULTY INDEX DOODUGTO	N/A	Α	EXCHANGE	2109/06/2022		907,086			19,448		15,267		15,267	(4, 181)						0002
FOLLITY INDEX ODITIONS	EQUITY INDEX PRODUCTS	NIZA		CHICAGO BOARD OF EXCHANGE	109/06/2022		1,360,629	4535.43		20 570		00.070		23,970	(0,000)						0000
EQUITY INDEX OPTIONS.	EQUITY INDEX PRODUCTS	N/ A	A	EXCHANGE	109/06/2022		1,300,629	4030.43		30,576		23,970		23,970	(6,606)						0002
EQUITY INDEX OPTIONS .	EQUITE INDEX PRODUCTS	N/A	Δ	EXCHANGE	109/06/2022		3, 174, 801	4535.43		87,087		66,807		66,807	(20,280)						0002
EGOTTI TIBER OFFICIO.	EQUITY INDEX PRODUCTS	1071	/	CHICAGO BOARD OF	. 1										(20,200)						2002
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	109/06/2022	I	907,086	4535.43		28,038		21,021		21,021	(7,017)						0002
	EQUITY INDEX PRODUCTS																				
EQUITY INDEX OPTIONS .		N/A	Α	WELLS FARGO	109/20/2022		5,886,679			114,202		91,734		91,734	(22,467)						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF																	
EQUITY INDEX OPTIONS.	FOULTY INDEX DODUGTO	N/A	Α	EXCHANGE	2109/20/2022		2,614,638			32,316		30,606		30,606	(1,710)						0002
FOLLITY INDEX OPTIONS	EQUITY INDEX PRODUCTS	NIZA		CHICAGO BOARD OF	00 (00 (0000		0.070.000	4057 70		400.004		440.000		440,000	(0.400)						0000
EQUITY INDEX OPTIONS .	EQUITY INDEX PRODUCTS	N/A	Α	EXCHANGE	2109/20/2022		6,972,368	4357.73		120,064		113,632		113,632	(6,432)						0002
EQUITY INDEX OPTIONS .	EQUITE INDEX PRODUCTS	N/A	Δ	EXCHANGE	109/20/2022		3,486,184	4357.73		69,760		65,969			(3,791)						0002
EQUITI INDEX OFFICING.	EQUITY INDEX PRODUCTS	N/ A	^	CHICAGO BOARD OF	.103/20/2022		0, 400, 104								(0,731)						0002
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	109/20/2022	L	1,743,092			38 , 260		36, 128		36, 128	(2, 132)						0002
	EQUITY INDEX PRODUCTS			CHICAGO BOARD OF			, .,			,		,		,	, , ,						
EQUITY INDEX OPTIONS.		N/A	Α	EXCHANGE	109/20/2022		1,307,319	4357.73		30,474		28,757		28,757	(1,717)						0002
	EQUITY INDEX PRODUCTS	l		CHICAGO BOARD OF																	
EQUITY INDEX OPTIONS .		N/A	Α	EXCHANGE	2109/20/2022	4	1,307,319	4357.73		35,022		32,985		32,985	(2,037)						0002
				Call Options and Warrants					2,915,174	8,557,041	0	15,293,974	XXX	15,293,974	3,209,267	0	0	0		XXX	XXX
	otal - Purchased Op								2,915,174	8,557,041	0	15,293,974	XXX	15,293,974	3,209,267	0	0	0		XXX	XXX
	otal - Purchased Op								0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	otal - Purchased Op		ne Generation	on					0		0	0	XXX	0	0	0	0	0		XXX	XXX
	otal - Purchased Op								0		0	0	XXX	0	0	0	0	0		XXX	XXX
0439999999. Tota	I Purchased Options	- Call Optio	ns and War	rants		·			2,915,174	8,557,041	0	15,293,974	XXX	15,293,974	3,209,267	0	0	0		XXX	XXX
0449999999. Tota	I Purchased Options	- Put Option	ns						0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
0459999999. Tota	I Purchased Options	- Caps							0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	I Purchased Options								0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Purchased Options								0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Purchased Options								0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Purchased Options								2,915,174		0	15,293,974	XXX	15,293,974	3,209,267	0	n	0		XXX	XXX
			Effective F	cluding Variable Annuity Guarantees Under S	AP No 108				2,010,114	0	n	0	XXX	n	0	0	n	0		XXX	XXX
				ariable Annuity Guarantees Under SSAP No.10					0	0	n	n	XXX	n	n	n	n	0		XXX	XXX
0709999999 Sub	otal - Written Option	s - Hedging	Other		-				0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
									0	0	n	n	XXX	n	n	n	0	0		XXX	XXX
	0779999999. Subtotal - Written Options - Replications 0849999999. Subtotal - Written Options - Income Generation								0	0	n	0	XXX	0	0	0	0	0		XXX	XXX
บบ า ยขยยยยย. อนม	otar - written Option	is - income c	JUITEI AUUIT							U	U	. ,	\\\\	U	U	U	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	ali Option	s, caps, r	10018, Colla	ars, Swaps	and Forwa	us Open a	S OI CUITEI	il Stateme	III 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												
										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	C		ffectiveness
	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			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		Entity	(b)
	total - Written Optior									0	0	0		XXX	0	0	0	0	0		XXX	XXX
	I Written Options - C		and Warrant	ts						0	0	0		XXX	0	0	0	0	0	0		XXX
	I Written Options - F									0	0	0	0	XXX	0	0	0	0	0	0		XXX
	I Written Options - C									0	0	0	0	XXX	0	0	0	0	0		XXX	XXX
	I Written Options - F									0	0	0		XXX	0	0	0	0	0	U .		XXX
	I Written Options - C									0	0	0		XXX	0	0	0	0	0	0		XXX
	I Written Options - C	Other								0	0	0		XXX	0	0	0	0	0		XXX	XXX
0989999999. Tota										0	0	0		XXX	0	0	0	0	0	0		XXX
				/ariable Annuity Guarantees Under S		3				0	0	0	0	XXX	0	0	0	0	0	0		XXX
			Variable Ar	nuity Guarantees Under SSAP No.1	08					0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	total - Swaps - Hedg									0	0	0		XXX	0	0	0	0	0	• .		XXX
1229999999. Sub	total - Swaps - Repli	cation								0	0	0		XXX	0	0	0	0	0			XXX
1289999999. Sub	total - Swaps - Incon	ne Generation	n							0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1349999999. Sub	total - Swaps - Other	r								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1359999999. Tota	I Swaps - Interest R	ate								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1369999999. Tota	I Swaps - Credit De	fault								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1379999999. Tota	l Swaps - Foreign E	xchange								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1389999999. Tota	l Swaps - Total Retu	ırn								0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1399999999. Tota	I Swaps - Other									0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1409999999. Tota	l Swaps									0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1479999999. Sub	total - Forwards									0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1509999999. Sub	total - SSAP No. 108	3 Adjustments	S							0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1689999999. Sub	total - Hedging Effec	tive Excludin	g Variable A	Annuity Guarantees Under SSAP No.	.108					0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
1699999999. Sub	total - Hedging Effec	tive Variable	Annuity Gu	arantées Under SSAP No.108						0	0	0	0	XXX	0	0	0	0	0	0	XXX	XXX
	total - Hedging Othe		,							2,915,174	8,557,041	0	15,293,974	XXX	15,293,974	3,209,267	0	0	0	0	XXX	XXX
1719999999. Sub										0	0	0	0	XXX	0	0	0	0	0	0	xxx	XXX
	total - Income Gener	ation								0	0	0	0	XXX	0	0	0	0	0			XXX
1739999999. Sub										0	0	0		XXX	0	0	0	0	0			XXX
	total - Adjustments for	or SSAP No.	108 Derivat	tives						0	0	0		XXX	0	0	0	0	0			XXX
1759999999 - Total										2.915.174	8.557.041	0	15.293.974		15.293.974	3.209.267	0	0	0		XXX	XXX
										_,010,111	-,501,011	ŭ	,200,011		,200,011	2,200,201	·		, ,	•		

(a)	Code	Description of Hedged Risk(s)
1	١	Equi ty Index

(b)	Code	Financial or Economic Impact of the Hedge at the End of the Reporting Period
10	002	Hedges crediting rate for fixed indexed annuity products linked to the S&P 500 index

Schedule DB - Part B - Section 1 - Futures Contracts Open ${f N}$ ${f O}$ ${f N}$ ${f E}$

Schedule DB - Part B - Section 1B - Brokers with whom cash deposits have been made **NONE**

SCHEDULE DB - PART D - SECTION 1

Counterparty Exposure for Derivative Instruments Open as of Current Statement Date

1 2 3			Counterpa	rty Offset	Book	x/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	Carrying Value >0	Carrying Value <0	Collateral	Fair Value >0	Fair Value <0	Net of Collateral	Exposure	Sheet Exposure
019999999 - Aggregate Sum of Exchange Traded Derivatives	XXX	XXX	XXX				0			0		0
BARCLAYS	Y	У			3, 156, 752		3, 156, 752	3, 156, 752		3, 156, 752		
BNP PARIBAS NY	У	У			278,657		278,657	278,657		278,657		
CHICAGO BOARD OF EXCHANGE	N	N			8,344,872			8,344,872		8,344,872		
CITIBANK MORGAN STANLEY	Y	Y	070 000				122,448	122,448		122,448		
ROYAL BANK OF CANADA	^Y		870,000 440.000				U					
SOCIETE GENERALE	v	v	440,000					116.473				
WELLS FARGO	γ	γ			2,275,528		2,275,528	2,275,528		2,275,528		
029999999. Total NAIC 1 Designation			1,310,000	0	15,293,974	0	14,294,730	15,293,974	0	14,294,730	0	0
							0			0		
039999999. Total NAIC 2 Designation			0	0	0	0	0	0	0	0	0	0
							0			0		
049999999. Total NAIC 3 Designation	1		0	0	0	0	0	0	0	0	0	0
OFFICE OF THE LANGE A Designation							0			0		
0599999999. Total NAIC 4 Designation			0	0	0	0	0	U	0	0	0	0
0699999999. Total NAIC 5 Designation			Λ	Λ	0	0		0	Λ		0	0
0033333333. Total NAIC 3 Designation			U	U	U	U	0	U	U	0	U	U
0799999999. Total NAIC 6 Designation	p		0	0	0	0	0	0	0	0	0	0
089999999. Aggregate Sum of Central Clearinghouses (Excluding	Exchange Trac	led)	-	<u>-</u>		-	0		-	0		
099999999 - Gross Totals	J	,	1,310,000	0	15,293,974	0	14,294,730	15,293,974	0	14,294,730	0	0
1. Offset per SSAP No. 64												
2. Net after right of offset per SSAP No. 64					15,293,974	0						

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STATEMENT AS OF SEPTEMBER 30, 2021 OF THE ANNUITY INVESTORS LIFE INSURANCE COMPANY

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		Type of Margin
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)
							•	
						•	· · · · · · · · · · · · · · · · · · ·	
								·+····
CACCOCCCC T. I. I								2001
019999999 - 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)
MORGAN STANLEY	Cash.		BANK OF NEW YORK (141003)	870,000	870,000	XXX		
ROYAL BANK OF CANADA	Cash		BANK OF NEW YORK (141003)	440,000	440,000	XXX		
029999999 - Total				1,310,000	1,310,000	XXX	XXX	XXX

Schedule DB - Part E - Derivatives Hedging Variable Annuity Guarantees ${f N}$ ${f O}$ ${f N}$ ${f E}$

Schedule DL - Part 1 - Reinvested Collateral Assets Owned NONE

Schedule DL - Part 2 - Reinvested Collateral Assets Owned NONE

SCHEDULE E - PART 1 - CASH Month End Depository Balances

1	2	3	4	5		ance at End of Eaduring Current Quart		9
		Rate of	Amount of Interest Received During Current	Amount of Interest Accrued at Current	6	7	8	
Depository	Code	Interest		Statement Date	First Month	Second Month	Third Month	*
PNC Bank Pittsburgh, PA		0.000	0	0	(2,820,117)	(1,435,224)	(705,267)	XXX
							3,308,035	XXX.
Morgan Stanley		0.010	0	10	999,814	1,000,000	982,325	XXX.
Cash Held With Securities On Deposit The Neighborhood National Bank					18,285			XXX
National City, CA		0.350	59	100	100,000	100,000	100,000	.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	59	110	(1,702,018)	(316,939)	3,703,378	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	59	110	(1,702,018)	(316,939)	3,703,378	XXX
0499999. Cash in Company's Office	XXX	XXX	XXX	XXX			•	XXX
· · · · · · · · · · · · · · · · · · ·	1			· · · · · · · · · · · · · · · · · · ·				

XXX XXX

110

(1,702,018)

(316,939)

3,703,378 XXX

0599999. Total - Cash

SCHEDULE E - PART 2 - CASH EQUIVALENTS

Show Investments Owned End of Current Quarter

		Show Investments O	wned End of Curren	t Quarter				
1	2	3	4	5	6	7 Book/Adjusted	8 Amount of Interest	9 Amount Received
CUSIP	Description	Code	Date Acquired	Rate of Interest	Maturity Date	Carrying Value	Due and Accrued	During Year
0599999. Total - U.S. Government Bond						0	0	
1099999. Total - All Other Government I						0	0	
1799999. Total - U.S. States, Territories	and Possessions Bonds					0	0	
2499999. Total - U.S. Political Subdivision	ons Bonds					0	0	
3199999. Total - U.S. Special Revenues	Bonds					0	0	
Amcor Flexibles North America	Inc.		09/20/2021	0.000	10/21/2021	4,999,611	0	21
Avery Dennison Corporation			09/22/2021	0.000	10/13/2021	4,999,783	0	16
BASF SE	γ		08/03/2021	0.000	10/04/2021	4,999,946 4,999,917	0	1,06 35
Canadian Pacific Hailway Compar				0.000	10/05/2021	4,999,917		
			09/29/2021	0.000	10/21/2021	4.999.583	0	2
E. I. du Pont de Nemours and C	ompany		09/15/2021	0.000	10/19/2021	4,999,625	0	33
Enbridge (U.S.) Inc.			09/24/2021	0.000	10/04/2021	4,999,938	0	14
Experian Finance plc			09/15/2021	0.000	12/01/2021	1,999,356	0	16
Fidelity National Information	Services,		09/15/2021	0.000	10/12/2021	4,999,694 4,999,533	0	
				0.000	10/25/202110/26/2021	4,999,333		
	P		09/24/2021	0.000	10/22/2021	4.999.563	0	14
NextEra Energy Capital Holding	s, Inc.		08/26/2021	0.000	10/26/2021	4,999,444	0	77
Nutrien Ltd.			08/24/2021	0.000	11/12/2021	4,999,067	0	84
	p Incorpor			0.000	11/04/2021	4,999,244	0	80
Sempra Spire Inc.			09/24/2021	0.000	10/07/2021 10/15/2021	1,999,940 4.999.747	U	
			09/09/2021	0.000	12/08/2021	4,997,922	0	
			09/09/2021	0.000	10/12/2021	4,999,725	0	55
			09/24/2021	0.000	10/20/2021	4,999,604	0	14
			09/17/2021	0.000	10/13/2021	4,999,700	0	27
			09/15/2021	0.000	11/10/2021	4,999,111	0	33
	nd Miscellaneous (Unaffiliated) - Issuer Obligations					108,988,889	0	8,36
3899999. Total - Industrial and Miscellar	neous (Unaffiliated) Bonds					108,988,889	0	8,36
4899999. Total - Hybrid Securities						0	0	
5599999. Total - Parent, Subsidiaries ar						0	0	
6099999. Subtotal - SVO Identified Fund						0	0	
6599999. Subtotal - Unaffiliated Bank Lo	pans					0	0	
7699999. Total - Issuer Obligations						108,988,889	0	8,36
7799999. Total - Residential Mortgage-E	Backed Securities					0	0	
7899999. Total - Commercial Mortgage-	Backed Securities					0	0	
7999999. Total - Other Loan-Backed and	d Structured Securities					0	0	
8099999. Total - SVO Identified Funds						0	0	
8199999. Total - Affiliated Bank Loans						0	0	
8299999. Total - Unaffiliated Bank Loans	\$					0	0	
8399999. Total Bonds	-					108.988.889	0	8,36
09248U-71-8 BLKRK LQ:T-FUND INSTL			09/30/2021	0.010		31,421,644	80	39
31846V-41-9 FIRST AMER:TRS OBG V		SD.	08/03/2021	0.010		0	0	
8599999. Subtotal - Exempt Money Mark	ket Mutual Funds - as Identified by the SVO	-		·		31,421,644	80	39
608919-47-8 FEDERATED HRMS GV 0 SEL	4	SD		0.030		206,948	4	2
SA0000-56-0 BB&T TRUST DEPOSIT		SD	08/31/2021	0.450		2,338	0	
8699999. Subtotal - All Other Money Ma	rket Mutual Funds					209,285	4	2
9999999 - Total Cash Equivalents		·				140,619,818	84	8,78