



## ASSETS

	Current Statement Date			4 December 31 Prior Year Net Admitted Assets
	1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	
1. Bonds .....	116,330,696		116,330,696	106,415,914
2. Stocks:				
2.1 Preferred stocks .....			0	
2.2 Common stocks .....			0	
3. Mortgage loans on real estate:				
3.1 First liens .....			0	
3.2 Other than first liens .....			0	
4. Real estate:				
4.1 Properties occupied by the company (less \$ encumbrances) .....			0	
4.2 Properties held for the production of income (less \$ encumbrances) .....			0	
4.3 Properties held for sale (less \$ encumbrances) .....			0	
5. Cash (\$ 963,646 ), cash equivalents (\$ 6,225,045 ) and short-term investments (\$ 0 ) .....	7,188,692		7,188,692	22,975,920
6. Contract loans (including \$ premium notes) .....	4,499,968		4,499,968	4,728,626
7. Derivatives .....			0	
8. Other invested assets .....			0	0
9. Receivables for securities .....			0	
10. Securities lending reinvested collateral assets .....			0	
11. Aggregate write-ins for invested assets .....	0	0	0	0
12. Subtotals, cash and invested assets (Lines 1 to 11) .....	128,019,356	0	128,019,356	134,120,460
13. Title plants less \$ charged off (for Title insurers only) .....			0	
14. Investment income due and accrued .....	1,386,631		1,386,631	1,333,580
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection .....	155,565	16,226	139,339	166,432
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums) .....	3,253,464	18,670	3,234,794	3,335,765
15.3 Accrued retrospective premiums (\$ ) and contracts subject to redetermination (\$ ) .....			0	
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers .....	645,218		645,218	563,707
16.2 Funds held by or deposited with reinsured companies .....			0	
16.3 Other amounts receivable under reinsurance contracts .....			0	
17. Amounts receivable relating to uninsured plans .....			0	
18.1 Current federal and foreign income tax recoverable and interest thereon .....	183,558		183,558	133,454
18.2 Net deferred tax asset .....	2,528,263	1,270,900	1,257,363	1,295,289
19. Guaranty funds receivable or on deposit .....	106,159		106,159	117,668
20. Electronic data processing equipment and software .....			0	
21. Furniture and equipment, including health care delivery assets (\$ ) .....			0	
22. Net adjustment in assets and liabilities due to foreign exchange rates .....			0	
23. Receivables from parent, subsidiaries and affiliates .....			0	183,358
24. Health care (\$ ) and other amounts receivable .....			0	
25. Aggregate write-ins for other than invested assets .....	37	0	37	22
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25) .....	136,278,251	1,305,796	134,972,455	141,249,735
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts .....			0	
28. Total (Lines 26 and 27) .....	136,278,251	1,305,796	134,972,455	141,249,735
<b>DETAILS OF WRITE-INS</b>				
1101. .....				
1102. .....				
1103. .....				
1198. Summary of remaining write-ins for Line 11 from overflow page .....	0	0	0	0
1199. Totals (Lines 1101 through 1103 plus 1198)(Line 11 above) .....	0	0	0	0
2501. Miscellaneous receivable .....	37		37	22
2502. .....				
2503. .....				
2598. Summary of remaining write-ins for Line 25 from overflow page .....	0	0	0	0
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above) .....	37	0	37	22

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**LIABILITIES, SURPLUS AND OTHER FUNDS**

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$ ..... 60,855,411 less \$ ..... included in Line 6.3 (including \$ ..... Modco Reserve) .....	60,855,411	62,687,266
2. Aggregate reserve for accident and health contracts (including \$ ..... Modco Reserve) .....	77,151	77,610
3. Liability for deposit-type contracts (including \$ ..... Modco Reserve) .....	2,132,352	1,433,526
4. Contract claims:		
4.1 Life .....	4,111,205	5,232,757
4.2 Accident and health .....		
5. Policyholders' dividends/refunds to members \$ ..... and coupons \$ ..... due and unpaid .....		
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 \$ ..... Modco) .....	9,000	9,000
6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$ ..... Modco) .....		
6.3 Coupons and similar benefits (including \$ ..... Modco) .....		
7. Amount provisionally held for deferred dividend policies not included in Line 6 .....		
8. Premiums and annuity considerations for life and accident and health contracts received in advance less \$ ..... discount; including \$ ..... accident and health premiums .....	25,058	61,082
9. Contract liabilities not included elsewhere:		
9.1 Surrender values on canceled contracts .....		
9.2 Provision for experience rating refunds, including the liability of \$ ..... accident and health experience rating refunds of which \$ ..... 0 is for medical loss ratio rebate per the Public Health Service Act .....		
9.3 Other amounts payable on reinsurance, including \$ ..... assumed and \$ ..... ceded .....	51,162	41,462
9.4 Interest Maintenance Reserve .....	3,115,445	3,287,534
10. Commissions to agents due or accrued-life and annuity contracts \$ ..... , accident and health \$ ..... and deposit-type contract funds \$ .....		
11. Commissions and expense allowances payable on reinsurance assumed .....		
12. General expenses due or accrued .....	83,824	90,925
13. Transfers to Separate Accounts due or accrued (net) (including \$ ..... accrued for expense allowances recognized in reserves, net of reinsured allowances) .....		
14. Taxes, licenses and fees due or accrued, excluding federal income taxes .....	259,903	306,481
15.1 Current federal and foreign income taxes, including \$ ..... on realized capital gains (losses) .....		
15.2 Net deferred tax liability .....		
16. Unearned investment income .....	36,612	43,598
17. Amounts withheld or retained by reporting entity as agent or trustee .....	10,885	67,385
18. Amounts held for agents' account, including \$ ..... 435,788 agents' credit balances .....	435,788	409,328
19. Remittances and items not allocated .....	1,695,898	1,106,713
20. Net adjustment in assets and liabilities due to foreign exchange rates .....		
21. Liability for benefits for employees and agents if not included above .....		
22. Borrowed money \$ ..... and interest thereon \$ .....		
23. Dividends to stockholders declared and unpaid .....		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve .....	583,409	547,489
24.02 Reinsurance in unauthorized and certified (\$ ..... ) companies .....		
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$ ..... ) reinsurers .....		
24.04 Payable to parent, subsidiaries and affiliates .....	80,014	
24.05 Drafts outstanding .....		
24.06 Liability for amounts held under uninsured plans .....		
24.07 Funds held under coinsurance .....	48,507,535	51,205,243
24.08 Derivatives .....	0	
24.09 Payable for securities .....	151,542	1,002,961
24.10 Payable for securities lending .....		
24.11 Capital notes \$ ..... and interest thereon \$ .....		
25. Aggregate write-ins for liabilities .....	391,706	546,717
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25) .....	122,613,900	128,157,077
27. From Separate Accounts Statement .....		
28. Total liabilities (Lines 26 and 27) .....	122,613,900	128,157,077
29. Common capital stock .....	2,500,000	2,500,000
30. Preferred capital stock .....		
31. Aggregate write-ins for other than special surplus funds .....	0	0
32. Surplus notes .....		
33. Gross paid in and contributed surplus .....	127,467,887	127,467,887
34. Aggregate write-ins for special surplus funds .....	0	0
35. Unassigned funds (surplus) .....	(117,609,332)	(116,875,229)
36. Less treasury stock, at cost:		
36.1 ..... shares common (value included in Line 29 \$ ..... ) .....		
36.2 ..... shares preferred (value included in Line 30 \$ ..... ) .....		
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ ..... in Separate Accounts Statement) .....	9,858,555	10,592,658
38. Totals of Lines 29, 30 and 37 .....	12,358,555	13,092,658
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) .....	134,972,455	141,249,735
<b>DETAILS OF WRITE-INS</b>		
2501. Unclaimed funds .....	391,706	546,717
2502. .....		
2503. .....		
2598. Summary of remaining write-ins for Line 25 from overflow page .....	0	0
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above) .....	391,706	546,717
3101. .....		
3102. .....		
3103. .....		
3198. Summary of remaining write-ins for Line 31 from overflow page .....	0	0
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) .....	0	0
3401. .....		
3402. .....		
3403. .....		
3498. Summary of remaining write-ins for Line 34 from overflow page .....	0	0
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above) .....	0	0

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**SUMMARY OF OPERATIONS**

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	2,474,222	2,889,454	5,514,834
2. Considerations for supplementary contracts with life contingencies			
3. Net investment income	1,561,125	1,563,378	3,024,029
4. Amortization of Interest Maintenance Reserve (IMR)	172,388	177,934	355,947
5. Separate Accounts net gain from operations excluding unrealized gains or losses			
6. Commissions and expense allowances on reinsurance ceded	269,808	260,193	515,986
7. Reserve adjustments on reinsurance ceded			
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts			
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	0	0	0
9. Totals (Lines 1 to 8.3)	4,477,543	4,890,959	9,410,796
10. Death benefits	4,585,904	4,643,142	8,522,279
11. Matured endowments (excluding guaranteed annual pure endowments)		5,995	12,647
12. Annuity benefits	613,384	1,252,514	1,536,066
13. Disability benefits and benefits under accident and health contracts			
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	726,432	777,915	1,341,822
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	19,308	1,694	27,529
18. Payments on supplementary contracts with life contingencies			
19. Increase in aggregate reserves for life and accident and health contracts	(1,832,314)	(2,212,352)	(3,313,378)
20. Totals (Lines 10 to 19)	4,112,714	4,468,908	8,126,965
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	109,215	119,661	230,382
22. Commissions and expense allowances on reinsurance assumed			
23. General insurance expenses and fraternal expenses	697,234	896,435	1,619,737
24. Insurance taxes, licenses and fees, excluding federal income taxes	199,562	160,477	379,457
25. Increase in loading on deferred and uncollected premiums	(352)	(1,683)	(3,229)
26. Net transfers to or (from) Separate Accounts net of reinsurance			
27. Aggregate write-ins for deductions	248,437	239,404	488,859
28. Totals (Lines 20 to 27)	5,366,810	5,883,202	10,842,171
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	(889,267)	(992,243)	(1,431,375)
30. Dividends to policyholders and refunds to members	11,520	11,307	22,084
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(900,787)	(1,003,550)	(1,453,459)
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	(268,042)	(318,688)	(542,921)
33. Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	(632,745)	(684,862)	(910,538)
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ (3) (excluding taxes of \$ 80 transferred to the IMR)	83	7,707	4,227
35. Net income (Line 33 plus Line 34)	(632,662)	(677,155)	(906,311)
<b>CAPITAL AND SURPLUS ACCOUNT</b>			
36. Capital and surplus, December 31, prior year	13,092,658	9,193,324	9,193,324
37. Net income (Line 35)	(632,662)	(677,155)	(906,311)
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ (340)	(48,125)	(4,299)	(3,136)
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax	(24,527)	(53,732)	(119,709)
41. Change in nonadmitted assets	7,131	(33,070)	187,653
42. Change in liability for reinsurance in unauthorized and certified companies			
43. Change in reserve on account of change in valuation basis, (increase) or decrease			0
44. Change in asset valuation reserve	(35,920)	(125,863)	(259,163)
45. Change in treasury stock			0
46. Surplus (contributed to) withdrawn from Separate Accounts during period			
47. Other changes in surplus in Separate Accounts Statement			
48. Change in surplus notes			
49. Cumulative effect of changes in accounting principles			
50. Capital changes:			
50.1 Paid in			
50.2 Transferred from surplus (Stock Dividend)			
50.3 Transferred to surplus			
51. Surplus adjustment:			
51.1 Paid in	0	5,000,000	5,000,000
51.2 Transferred to capital (Stock Dividend)			
51.3 Transferred from capital			
51.4 Change in surplus as a result of reinsurance			
52. Dividends to stockholders			
53. Aggregate write-ins for gains and losses in surplus	0	0	0
54. Net change in capital and surplus for the year (Lines 37 through 53)	(734,103)	4,105,881	3,899,334
55. Capital and surplus, as of statement date (Lines 36 + 54)	12,358,555	13,299,205	13,092,658
<b>DETAILS OF WRITE-INS</b>			
08.301.			
08.302.			
08.303.			
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	0	0	0
2701. Reinsurance administration agreement expense	248,437	239,404	488,859
2702.			
2703.			
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	248,437	239,404	488,859
5301.			
5302.			
5303.			
5398. Summary of remaining write-ins for Line 53 from overflow page	0	0	0
5399. Totals (Lines 5301 through 5303 plus 5398) (Line 53 above)	0	0	0

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**CASH FLOW**

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
<b>Cash from Operations</b>			
1. Premiums collected net of reinsurance .....	2,588,133	3,043,874	5,699,502
2. Net investment income .....	1,368,108	1,473,207	2,864,351
3. Miscellaneous income .....	269,808	260,193	515,986
4. Total (Lines 1 to 3) .....	4,226,049	4,777,274	9,079,839
5. Benefit and loss related payments .....	7,119,083	4,663,300	9,640,439
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts .....	0	0	0
7. Commissions, expenses paid and aggregate write-ins for deductions .....	1,296,618	1,688,834	2,750,315
8. Dividends paid to policyholders .....	3,213	3,306	6,780
9. Federal and foreign income taxes paid (recovered) net of \$ ..... tax on capital gains (losses) .....	(217,861)	(472,229)	(596,544)
10. Total (Lines 5 through 9) .....	8,201,053	5,883,211	11,800,991
11. Net cash from operations (Line 4 minus Line 10) .....	(3,975,004)	(1,105,937)	(2,721,151)
<b>Cash from Investments</b>			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds .....	3,948,979	2,141,576	3,737,659
12.2 Stocks .....	0	0	0
12.3 Mortgage loans .....	0	0	0
12.4 Real estate .....	0	0	0
12.5 Other invested assets .....	0	0	0
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments .....	0	0	0
12.7 Miscellaneous proceeds .....	0	1,312	1,002,961
12.8 Total investment proceeds (Lines 12.1 to 12.7) .....	3,948,979	2,142,888	4,740,620
13. Cost of investments acquired (long-term only):			
13.1 Bonds .....	13,778,842	0	1,000,330
13.2 Stocks .....	0	0	0
13.3 Mortgage loans .....	0	0	0
13.4 Real estate .....	0	0	0
13.5 Other invested assets .....	0	0	0
13.6 Miscellaneous applications .....	851,419	0	0
13.7 Total investments acquired (Lines 13.1 to 13.6) .....	14,630,261	0	1,000,330
14. Net increase (or decrease) in contract loans and premium notes .....	(228,658)	(77,887)	(290,222)
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14) .....	(10,452,624)	2,220,775	4,030,512
<b>Cash from Financing and Miscellaneous Sources</b>			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes .....	0	0	0
16.2 Capital and paid in surplus, less treasury stock .....	0	5,000,000	5,000,000
16.3 Borrowed funds .....	0	0	0
16.4 Net deposits on deposit-type contracts and other insurance liabilities .....	671,211	(132,232)	(281,545)
16.5 Dividends to stockholders .....	0	0	0
16.6 Other cash provided (applied) .....	(2,030,811)	347,431	(1,652,998)
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6) .....	(1,359,600)	5,215,199	3,065,457
<b>RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS</b>			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17) .....	(15,787,228)	6,330,037	4,374,818
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year .....	22,975,920	18,601,102	18,601,102
19.2 End of period (Line 18 plus Line 19.1) .....	7,188,692	24,931,139	22,975,920

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

20.0001. .....		0	0
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**EXHIBIT 1****DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS**

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Industrial life .....			0
2. Ordinary life insurance .....	5,733,702	6,351,918	12,451,554
3. Ordinary individual annuities .....	103,618	100,611	121,111
4. Credit life (group and individual) .....			0
5. Group life insurance .....	0		0
6. Group annuities .....	0		0
7. A & H - group .....	0		0
8. A & H - credit (group and individual) .....			0
9. A & H - other .....	35,256	39,025	76,505
10. Aggregate of all other lines of business .....	0	0	0
11. Subtotal (Lines 1 through 10) .....	5,872,576	6,491,554	12,649,170
12. Fraternal (Fraternal Benefit Societies Only) .....	0		0
13. Subtotal (Lines 11 through 12) .....	5,872,576	6,491,554	12,649,170
14. Deposit-type contracts .....	0	0	0
15. Total (Lines 13 and 14)	5,872,576	6,491,554	12,649,170
<b>DETAILS OF WRITE-INS</b>			
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

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## NOTES TO FINANCIAL STATEMENTS

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**Note 1 - Summary of Significant Accounting Policies****A. Accounting Practices**

The financial statements of Manhattan National 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	June 30, 2022	December 31, 2021
(1) State basis	\$ (632,662)	\$ (906,311)
(2) State prescribed practices that increase/(decrease) NAIC SAP	-	-
(3) State permitted practices that increase/(decrease) NAIC SAP	-	-
(4) NAIC SAP	<u>\$ (632,662)</u>	<u>\$ (906,311)</u>
Surplus		
(5) State basis	\$ 12,358,555	\$ 13,092,658
(6) State prescribed practices that increase/(decrease) NAIC SAP	-	-
(7) State permitted practices that increase/(decrease) NAIC SAP	-	-
(8) NAIC SAP	<u>\$ 12,358,555</u>	<u>\$ 13,092,658</u>

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-than-temporary 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 Company has no loan-backed securities with a credit-related OTTI charge recognized during the period.
- (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	\$59,514
2. 12 months or longer	48,455

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

1. Less than 12 months	\$2,850,245
2. 12 months or longer	75,963

- (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 June 30, 2022. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.

**E. Dollar Repurchase Agreements and/or Securities Lending Transactions - Not applicable.****F. Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.****G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.****H. Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.****I. Reverse Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.****J. Real Estate – Not applicable.****K. Low Income Housing Tax Credits – Not applicable.**

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## NOTES TO FINANCIAL STATEMENTS

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- L. Restricted Assets – No significant change.
- M. Working Capital Finance Investments – Not applicable.
- N. Offsetting and Netting of Assets and Liabilities – Not applicable.
- O. 5GI Securities – Not applicable.
- P. Short Sales – Not Applicable.
- Q. Prepayment Penalty and Acceleration Fees – Not applicable.
- 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**

Not applicable.

**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 Manhattan National Holding, LLC ("MNH"). The Company's common stock was contributed to MNH on September 25, 2008, from Great American Life Insurance Company ("GALIC"). See Schedule Y, Part 1, Organizational Chart.

During the period, the Company received a \$217,942 federal income tax payment in cash from GALIC.

- D. The Company reported \$80,014 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) 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 MNH.
- 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.

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## NOTES TO FINANCIAL STATEMENTS

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**E. Defined Contribution Plan**

The Company participates in the retirement plans of GALIC. GALIC sponsors funded (qualified 401(k) thrift savings) and unfunded (nonqualified deferred compensation thrift savings) defined contribution plans for its employees and retirees. The qualified 401(k) thrift savings plan's net assets available for benefits were \$32,265,454 as of June 30, 2022 and \$34,792,881 as of December 31, 2021. The Company matches a percentage of employee contributions to the qualified 401(k) thrift savings plan. The Company's total matching thrift savings contributions included in general insurance expenses were \$23,884 for the six months ended June 30, 2022 and \$37,694 for the year ended December 31, 2021.

**F. The Company did not participate in multiemployer plans.**

**G. The Company did not participate in consolidated or holding company plans.**

**H. The Company does not accrue for postemployment benefits and compensated absences.**

**I. The Company does not apply for a subsidy under the Medicare Part D under the Medicare Modernization Act.**

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

No significant change.

**Note 14 - Contingencies**

No significant change.

**Note 15 - Leases**

Not applicable.

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

Not applicable.

**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**

**A.**

**(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 Asset Value (NAV)				Total
	Level 1	Level 2	Level 3		
Assets at fair value					
Bonds:					
Industrial and miscellaneous	\$ -	\$ 75,963	\$ -	\$ -	\$ 75,963
Total bonds	- -	75,963	- -	- -	75,963
Total assets accounted for at fair value/NAV	\$ -	\$ 75,963	\$ -	\$ -	\$ 75,963

**(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 June 30, 2022.

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## NOTES TO FINANCIAL STATEMENTS

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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 – Not applicable.

B. The Company has no additional fair value disclosures.

C. The Company has categorized all the financial assets in the financial statements into the three-level fair value hierarchy as reflected in the following table. See item (4) above for a discussion of each of these three levels.

Type of Financial Instrument	Aggregate Fair Value	Admitted Assets	Level 1			Level 2			Level 3			Net Asset Value (NAV)	Not Practicable (Carrying Value)
			Level 1	Level 2	Level 3	Level 1	Level 2	Level 3	Level 1	Level 2	Level 3		
<b>Financial Assets:</b>													
Bonds:													
U.S. government and agencies	\$ 5,552,008	\$ 5,604,919	\$ -	\$ 5,552,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
States, territories and possessions	3,536,260	2,599,621	-	3,536,260	-	-	-	-	-	-	-	-	
Special revenue	13,255,231	12,732,130	-	13,255,231	-	-	-	-	-	-	-	-	
Industrial and miscellaneous	91,136,864	94,616,629	-	91,136,864	-	-	-	-	-	-	-	-	
Hybrid securities	827,774	777,397	-	827,774	-	-	-	-	-	-	-	-	
Total bonds	\$ 114,308,137	\$ 116,330,696	\$ -	\$ 114,308,137	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cash and cash equivalents	7,188,692	7,188,692	7,188,692	-	-	-	-	-	-	-	-	-	
Policy loans	4,499,968	4,499,968	-	-	-	-	4,499,968	-	-	-	-	-	
Total financial assets	\$ 125,996,797	\$ 128,019,356	\$ 7,188,692	\$ 114,308,137	\$ 4,499,968	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

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 investments that fall under this classification.

**Note 21 - Other Items**

No significant change.

**Note 22 - Events Subsequent/Other Items of Note**

No significant change.

**Note 23 - Reinsurance**

No significant change.

**Note 24 - Retrospectively Rated Contracts & Contracts Subject to Redetermination**

Not applicable.

**Note 25 - Change in Incurred Losses and Loss Adjustment Expenses**

The Company had no changes in the provision for incurred loss or loss adjustment expenses attributable to insured events of prior years.

**Note 26 - Intercompany Pooling Arrangements**

Not applicable.

**Note 27 - Structured Settlements**

Not applicable.

**Note 28 - Health Care Receivables**

Not applicable.

**Note 29 - Participating Policies**

No significant change.

**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**

No significant change.

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## NOTES TO FINANCIAL STATEMENTS

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**Note 34 - Premiums and Annuity Considerations Deferred and Uncollected**

No significant change.

**Note 35 - Separate Accounts**

Not applicable.

**Note 36 - Loss/Claim Adjustment Expenses**

Not applicable.

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

**PART 1 - COMMON INTERROGATORIES**

**GENERAL**

1.1 Did the reporting entity experience any material transactions requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act? ..... Yes [ ] No [ X ]

1.2 If yes, has the report been filed with the domiciliary state? ..... Yes [ ] No [ ]

2.1 Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? ..... Yes [ ] No [ X ]

2.2 If yes, date of change: \_\_\_\_\_

3.1 Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer? ..... If yes, complete Schedule Y, Parts 1 and 1A. Yes [ X ] No [ ]

3.2 Have there been any substantial changes in the organizational chart since the prior quarter end? ..... Yes [ ] No [ X ]

3.3 If the response to 3.2 is yes, provide a brief description of those changes.

3.4 Is the reporting entity publicly traded or a member of a publicly traded group? ..... Yes [ ] No [ X ]

3.5 If the response to 3.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group. \_\_\_\_\_

4.1 Has the reporting entity been a party to a merger or consolidation during the period covered by this statement? ..... Yes [ ] No [ X ]

4.2 If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation.

1 Name of Entity	2 NAIC Company Code	3 State of Domicile
---------------------	------------------------	------------------------

5. If the reporting entity is subject to a management agreement, including third-party administrator(s), managing general agent(s), attorney-in-fact, or similar agreement, have there been any significant changes regarding the terms of the agreement or principals involved? ..... Yes [ ] No [ X ] N/A [ ] If yes, attach an explanation.

6.1 State as of what date the latest financial examination of the reporting entity was made or is being made. ..... 12/31/2016

6.2 State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released. ..... 12/31/2016

6.3 State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date). ..... 01/11/2018

6.4 By what department or departments?  
Ohio Department of Insurance

6.5 Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments? ..... Yes [ ] No [ ] N/A [ X ]

6.6 Have all of the recommendations within the latest financial examination report been complied with? ..... Yes [ ] No [ ] N/A [ X ]

7.1 Has this reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period? ..... Yes [ ] No [ X ]

7.2 If yes, give full information:

8.1 Is the company a subsidiary of a bank holding company regulated by the Federal Reserve Board? ..... Yes [ ] No [ X ]

8.2 If response to 8.1 is yes, please identify the name of the bank holding company.

8.3 Is the company affiliated with one or more banks, thrifts or securities firms? ..... Yes [ X ] No [ ]

8.4 If response to 8.3 is yes, please provide below the names and location (city and state of the main office) of any affiliates regulated by a federal regulatory services agency [i.e. the Federal Reserve Board (FRB), the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Securities Exchange Commission (SEC)] and identify the affiliate's primary federal regulator.

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

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

9.1 Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions) of the reporting entity subject to a code of ethics, which includes the following standards? ..... Yes [  ] No [  ]  
 (a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;  
 (b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting entity;  
 (c) Compliance with applicable governmental laws, rules and regulations;  
 (d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and  
 (e) Accountability for adherence to the code.

9.11 If the response to 9.1 is No, please explain:

9.2 Has the code of ethics for senior managers been amended? ..... Yes [  ] No [  ]

9.21 If the response to 9.2 is Yes, provide information related to amendment(s).

9.3 Have any provisions of the code of ethics been waived for any of the specified officers? ..... Yes [  ] No [  ]

9.31 If the response to 9.3 is Yes, provide the nature of any waiver(s).

**FINANCIAL**

10.1 Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement? ..... Yes [  ] No [  ]

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 otherwise made available for use by another person? (Exclude securities under securities lending agreements.) ..... Yes [  ] No [  ]

11.2 If yes, give full and complete information relating thereto:

	1	2
	Prior Year-End Book/Adjusted Carrying Value	Current Quarter Book/Adjusted Carrying Value
14.21 Bonds .....	\$ .....	\$ .....
14.22 Preferred Stock .....	\$ .....	\$ .....
14.23 Common Stock .....	\$ .....	\$ .....
14.24 Short-Term Investments .....	\$ .....	\$ .....
14.25 Mortgage Loans on Real Estate .....	\$ .....	\$ .....
14.26 All Other .....	\$ .....	\$ .....
14.27 Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26) .....	\$ .....	\$ .....
14.28 Total Investment in Parent included in Lines 14.21 to 14.26 above .....	\$ .....	\$ .....

12. Amount of real estate and mortgages held in other invested assets in Schedule BA: ..... \$ .....

13. Amount of real estate and mortgages held in short-term investments: ..... \$ .....

14.1 Does the reporting entity have any investments in parent, subsidiaries and affiliates? ..... Yes [  ] No [  ]

14.2 If yes, please complete the following:

	1	2
	Prior Year-End Book/Adjusted Carrying Value	Current Quarter Book/Adjusted Carrying Value
14.21 Bonds .....	\$ .....	\$ .....
14.22 Preferred Stock .....	\$ .....	\$ .....
14.23 Common Stock .....	\$ .....	\$ .....
14.24 Short-Term Investments .....	\$ .....	\$ .....
14.25 Mortgage Loans on Real Estate .....	\$ .....	\$ .....
14.26 All Other .....	\$ .....	\$ .....
14.27 Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26) .....	\$ .....	\$ .....
14.28 Total Investment in Parent included in Lines 14.21 to 14.26 above .....	\$ .....	\$ .....

15.1 Has the reporting entity entered into any hedging transactions reported on Schedule DB? ..... Yes [  ] No [  ]

15.2 If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? ..... Yes [  ] No [  ] N/A [  ]  
 If no, attach a description with this statement.

16. For the reporting entity's security lending program, state the amount of the following as of the current statement date:

16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2. ....	\$ .....	0
16.2 Total book adjusted/carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2. ....	\$ .....	0
16.3 Total payable for securities lending reported on the liability page. ....	\$ .....	0

**STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY**  
**GENERAL INTERROGATORIES**

17. Excluding items in Schedule E - Part 3 - Special Deposits, real estate, mortgage loans and investments held physically in the reporting entity's offices, vaults or safety deposit boxes, were all stocks, bonds and other securities, owned throughout the current year held pursuant to a custodial agreement with a qualified bank or trust company in accordance with Section 1, III - General Examination Considerations, F. Outsourcing of Critical Functions, Custodial or Safekeeping Agreements of the NAIC Financial Condition Examiners Handbook? ..... Yes [  ] No [  ]

17.1 For all agreements that comply with the requirements of the NAIC Financial Condition Examiners Handbook, complete the following:

1 Name of Custodian(s)	2 Custodian Address
Bank of New York Mellon .....	1 Wall Street, New York, NY 10286 .....

17.2 For all agreements that do not comply with the requirements of the NAIC Financial Condition Examiners Handbook, provide the name, location and a complete explanation:

1 Name(s)	2 Location(s)	3 Complete Explanation(s)

17.3 Have there been any changes, including name changes, in the custodian(s) identified in 17.1 during the current quarter? ..... Yes [  ] No [  ]

17.4 If yes, give full information relating thereto:

1 Old Custodian	2 New Custodian	3 Date of Change	4 Reason

17.5 Investment management – Identify all investment advisors, investment managers, broker/dealers, including individuals that have the authority to make investment decisions on behalf of the reporting entity. For assets that are managed internally by employees of the reporting entity, note as such. ["...that have access to the investment accounts"; "...handle securities"]

1 Name of Firm or Individual	2 Affiliation
Barings LLC .....	A.....

17.5097 For those firms/individuals listed in the table for Question 17.5, do any firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") manage more than 10% of the reporting entity's invested assets? ..... Yes [  ] No [  ]

17.5098 For firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") listed in the table for Question 17.5, does the total assets under management aggregate to more than 50% of the reporting entity's invested assets? ..... Yes [  ] No [  ]

17.6 For those firms or individuals listed in the table for 17.5 with an affiliation code of "A" (affiliated) or "U" (unaffiliated), provide the information for the table below.

1 Central Registration Depository Number	2 Name of Firm or Individual	3 Legal Entity Identifier (LEI)	4 Registered With	5 Investment Management Agreement (IMA) Filed
106006 .....	Barings LLC .....	R6ZXK501NPHXSY1S07 .....	SEC .....	DS.....

18.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed? ..... Yes [  ] No [  ]

18.2 If no, list exceptions:

19. By self-designating 5GI securities, the reporting entity is certifying the following elements for each self-designated 5GI security:

- a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available.
- b. Issuer or obligor is current on all contracted interest and principal payments.
- c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal.

Has the reporting entity self-designated 5GI securities? ..... Yes [  ] No [  ]

20. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security:

- a. The security was purchased prior to January 1, 2018.
- b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
- c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insurer and available for examination by state insurance regulators.
- d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO.

Has the reporting entity self-designated PLGI securities? ..... Yes [  ] No [  ]

21. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund:

- a. The shares were purchased prior to January 1, 2019.
- b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
- c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior to January 1, 2019.
- d. The fund only or predominantly holds bonds in its portfolio.
- e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO.
- f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed.

Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? ..... Yes [  ] No [  ]

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

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

**Life and Accident Health Companies/Fraternal Benefit Societies:**

1	Amount
1. Report the statement value of mortgage loans at the end of this reporting period for the following categories:	
1.1 Long-Term Mortgages In Good Standing	
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 .....	0.000 %
3.1 Do you act as a custodian for health savings accounts? .....	Yes [ ] No [ X ]
3.2 If yes, please provide the amount of custodial funds held as of the reporting date .....	\$ .....
3.3 Do you act as an administrator for health savings accounts? .....	Yes [ ] No [ X ]
3.4 If yes, please provide the balance of the funds administered as of the reporting date .....	\$ .....
4. Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states? .....	Yes [ X ] No [ ]
4.1 If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity? .....	Yes [ ] No [ ]

**Fraternal Benefit Societies Only:**

- 5.1 In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done? .....
- 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
.....	.....

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

## **SCHEDULE S - CEDED REINSURANCE**

Showing All New Reinsurance Treaties - Current Year to Date

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS**

Current Year To Date - Allocated by States and Territories

States, Etc.	1	Direct Business Only					
		2	3	4	5	6	7
	Active Status (a)	Life Insurance Premiums	Annuity Considerations	Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	Other Considerations	Total Columns 2 Through 5	Deposit-Type Contracts
1. Alabama	AL	26,625				26,625	
2. Alaska	AK	5,536				5,536	
3. Arizona	AZ	47,186				47,186	
4. Arkansas	AR	55,064				55,064	
5. California	CA	715,740	861			716,601	
6. Colorado	CO	73,327				73,327	
7. Connecticut	CT	49,062				49,062	
8. Delaware	DE	22,239				22,239	
9. District of Columbia	DC	3,357				3,357	
10. Florida	FL	422,628	547	32,386		455,561	
11. Georgia	GA	163,336	1,100	350		164,786	
12. Hawaii	HI	29,079				29,079	
13. Idaho	ID	11,775				11,775	
14. Illinois	IL	180,959	4,839			185,798	
15. Indiana	IN	177,626	1,020	194		178,840	
16. Iowa	IA	65,505	7,000	530		73,035	
17. Kansas	KS	71,831	4,086			75,917	
18. Kentucky	KY	62,383				62,383	
19. Louisiana	LA	127,685				127,685	
20. Maine	ME	37,044				37,044	
21. Maryland	MD	192,881				192,881	
22. Massachusetts	MA	130,681				130,681	
23. Michigan	MI	242,265	5,093	279		247,637	
24. Minnesota	MN	307,653	18,050			325,703	
25. Mississippi	MS	64,527	720			65,247	
26. Missouri	MO	188,142	8,254	303		196,698	
27. Montana	MT	7,182				7,182	
28. Nebraska	NE	40,051				40,051	
29. Nevada	NV	44,847				44,847	
30. New Hampshire	NH	32,759				32,759	
31. New Jersey	NJ	154,017				154,017	
32. New Mexico	NM	17,288		567		17,855	
33. New York	NY	56,142				56,142	
34. North Carolina	NC	127,604	300			127,904	
35. North Dakota	ND	51,611				51,611	
36. Ohio	OH	150,155	90	108		150,353	
37. Oklahoma	OK	44,679				44,679	
38. Oregon	OR	39,903				39,903	
39. Pennsylvania	PA	178,227		219		178,446	
40. Rhode Island	RI	5,706				5,706	
41. South Carolina	SC	54,545	180			54,725	
42. South Dakota	SD	11,845	200			12,045	
43. Tennessee	TN	151,566		330		151,895	
44. Texas	TX	367,771	300	135		368,206	
45. Utah	UT	27,087	71			27,158	
46. Vermont	VT	9,569				9,569	
47. Virginia	VA	115,138	120	(1,131)		114,127	
48. Washington	WA	59,244				59,244	
49. West Virginia	WV	9,909				9,909	
50. Wisconsin	WI	516,439	50,787	880		568,106	
51. Wyoming	WY	9,009				9,009	
52. American Samoa	AS	N				0	
53. Guam	GU	N				0	
54. Puerto Rico	PR	N				0	
55. U.S. Virgin Islands	VI	N				0	
56. Northern Mariana Islands	MP	N				0	
57. Canada	CAN	N	819			819	
58. Aggregate Other Aliens	OT	XXX	546	0	0	546	0
59. Subtotal		XXX	5,757,796	103,618	35,148	5,896,561	0
90. Reporting entity contributions for employee benefits plans		XXX				0	
91. Dividends or refunds applied to purchase paid-up additions and annuities		XXX				0	
92. Dividends or refunds applied to shorten endowment or premium paying period		XXX				0	
93. Premium or annuity considerations waived under disability or other contract provisions		XXX	89,926			89,926	
94. Aggregate or other amounts not allocable by State		XXX	0	0	0	0	0
95. Totals (Direct Business)		XXX	5,847,721	103,618	35,148	5,986,487	0
96. Plus Reinsurance Assumed		XXX				0	
97. Totals (All Business)		XXX	5,847,721	103,618	35,148	5,986,487	0
98. Less Reinsurance Ceded		XXX	3,003,500	46,628	34,837	3,084,965	
99. Totals (All Business) less Reinsurance Ceded		XXX	2,844,221	56,990	311	2,901,522	0
DETAILS OF WRITE-INS							
58001. Other Alien		XXX	546			546	
58002.		XXX					
58003.		XXX					
58998. Summary of remaining write-ins for Line 58 from overflow page		XXX	0	0	0	0	0
58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)		XXX	546	0	0	546	0
9401.		XXX					
9402.		XXX					
9403.		XXX					
9498. Summary of remaining write-ins for Line 94 from overflow page		XXX	0	0	0	0	0
9499. Totals (Lines 9401 through 9403 plus 9498)(Line 94 above)		XXX	0	0	0	0	0

(a) Active Status Counts:

L - Licensed or Chartered - Licensed Insurance carrier or domiciled RRG..... 50 R - Registered - Non-domiciled RRGs..... 0

E - Eligible - Reporting entities eligible or approved to write surplus lines in the state..... 0 Q - Qualified - Qualified or accredited reinsurer..... 0

N - None of the above - Not allowed to write business in the state..... 7

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

### PART 1 – ORGANIZATIONAL CHART

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

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
<b>MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY</b>	04-1590850	65935	Massachusetts
<b>Direct &amp; Indirect Owned Subsidiaries:</b>			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Mezzanine Investor III, LLC	06-1041383		Delaware
CML Special Situations Investor LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities I I LLC	None		Delaware
MM Global Capabilities I II LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
JFIN Parent LLC	None		Delaware
Jefferies Finance LLC	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
Jefferies Credit Management LLC	None		Delaware
JCP Direct Lending CLO 2022 LLC	None		Delaware
JFAM GP LLC	None		Delaware
JFAM GP LP	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.

**SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP**  
**PART 1 – ORGANIZATIONAL CHART**

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Jefferies Direct Lending Fund C LP	None		Delaware
Jefferies DLF C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund C SPE LLC	None		Delaware
JDLF II GP LLC	None		Delaware
JDLF II GP LP	None		Delaware
Jefferies Direct Lending Fund II C LP	None		Delaware
Jefferies DLF II C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund II C SPE LLC	None		Delaware
Jefferies Private Credit BDC Inc.	None		Maryland
Jefferies Senior Lending LLC	None		Delaware
JFIN Revolver Holdings LLC	None		Delaware
JFIN Revolver Holdings II LLC	None		Delaware
JFIN Revolver Holdings IV LLC	None		Delaware
JFIN Co-Issuer Corporation	None		Delaware
JFIN Europe GP, S.a.r.l.	None		Luxembourg
Jefferies Finance Europe, S.L.P.	None		Luxembourg
Jefferies Finance Europe, SCSp	None		Luxembourg
Jefferies Finance Business Credit LLC	None		Delaware
JFIN Business Credit Fund I LLC	None		Delaware
JFIN Funding 2021 LLC	None		Delaware
JFIN High Yield Investments LLC	None		Delaware
JFIN LC Fund LLC	None		Delaware
JFIN Revolver CLO 2017 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver Fund, L.P.	None		Delaware
JFIN Revolver Funding 2021 Ltd.	None		Delaware
JFIN Revolver Funding 2021-III Ltd.	None		Delaware
JFIN Revolver Funding 2021-IV Ltd.	None		Delaware
JFIN Revolver Funding 2022-I Ltd.	None		Bermuda
JFIN Revolver SPE1 2022 LLC	None		Delaware
Apex Credit Holdings LLC	None		Delaware
JFIN CLO 2012 Ltd.	None		Cayman Islands

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

### PART 1 – ORGANIZATIONAL CHART

			<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
	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
12.2	Glidepath Holdings Inc.		86-2294635		Delaware
	Great American Life Insurance Company		13-1935920	63312	Ohio
	AAG Insurance Agency, LLC		31-1422717		Kentucky
	Annuity Investors Life Insurance Company		31-1021738	93661	Ohio
	Great American Advisors, LLC		31-1395344		Ohio
	Manhattan National Holding, LLC		26-3260520		Ohio
	Manhattan National Life Insurance Company		45-0252531	67083	Ohio
12.2	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
12.2	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
12.2	MML CM LLC		None		Delaware
	Blueprint Income LLC		None		New York
	Flourish Digital Assets LLC		None		Delaware
	Flourish Financial LLC		None		Delaware
	Flourish Holding Company LLC		None		Delaware

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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Flourish Insurance Agency LLC	None		Delaware
Flourish Technologies LLC	None		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		Connecticut
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental LLC	04-1590850		Delaware
Pioneers Gate LLC	45-2738137		Delaware
MassMutual Holding LLC	04-2854319		Delaware
Fern Street LLC	37-1732913		Delaware
Low Carbon Energy Holding	None		United Kingdom
Sleeper Street LLC	None		Delaware
Haven Life Insurance Agency, LLC	46-2252944		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MassMutual Ventures Holding LLC	None		Delaware
Athens Fund Management LLC	None		Delaware
Crane Venture Partners LLP	None		United Kingdom
MassMutual Ventures Management LLC	None		Delaware
MassMutual Ventures SEA Management Private Limited	None		Singapore
MassMutual Ventures Southeast Asia I LLC	None		Delaware
MassMutual Ventures Southeast Asia II LLC	None		Delaware
MassMutual Ventures Southeast Asia III LLC	None		Delaware
MMV Digital I LLC	None		Cayman Islands
MassMutual Ventures UK LLC	None		Delaware
MassMutual Ventures US I LLC	47-1296410		Delaware
MassMutual Ventures US II LLC	None		Delaware
MassMutual Ventures US III LLC	None		Delaware
MassMutual Ventures US IV LLC	None		Delaware
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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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
Barings Japan Limited	98-0236449		Japan
Barings Australia Holding Company Pty Ltd	None		Australia
Barings Australia Pty Ltd	98-0457456		Australia
Barings Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
BCF Senior Funding I Designated Activity Company	None		Ireland
Barings Real Estate Acquisitions LLC	None		Delaware
Barings Securities LLC	04-3238351		Delaware
Barings Guernsey Limited	98-0437588		Guernsey
Barings Europe Limited	None		United Kingdom
Barings Asset Management Spain SL	None		Spain
Barings GmbH	None		Germany
Barings Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Netherlands B.V.	None		Netherlands
Barings Real Estate UK Holdings Limited	None		Delaware
Barings (U.K.) Limited	98-0432153		United Kingdom
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Barings Global Advisors Limited	98-1012393		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring International Investment Management Holdings	98-0457587		United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576		United Kingdom
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland
Baring Asset Management Switzerland Sàrl	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 S.à.r.l	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à.r.l	None		Luxembourg
PREIF Holdings Limited Partnership	None		United Kingdom
BMC Holdings DE LLC	None		Delaware
Baring Real Estate Advisers Inc.	04-3238351		Delaware
CRA Aircraft Holding LLC*	81-4258759		Delaware
Aland Royalty Holdings LP	None		Delaware
Chassis Acquisition Holding LLC	81-2244465		Delaware
EIP Holdings I, LLC	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
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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Barings Hotel Opportunity Venture I GP, LLC	None		Delaware
Barings Investment Series LLC	None		Delaware
Barings Emerging Generation Fund GP, LLC	None		Delaware
Barings Emerging Generation Fund GP II, LLC	None		Delaware
Barings ERS PE Emerging Manager III GP, LLC	None		Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850		Delaware
Barings CLO Investment Partners GP, LLC	None		Delaware
Barings Core Property Fund GP LLC	None		Delaware
Barings Direct Lending GP Ltd.	None		Cayman Islands
Barings Emerging Generation Fund LP	84-3784245		Delaware
Barings Global Energy Infrastructure Advisors, LLC	None		Delaware
Barings Global Real Assets Fund GP, LLC	None		Delaware
Barings GPSF	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund Management II, LLC	None		Delaware
Barings North American Private Loan Fund Management III, LLC	None		Delaware
Barings Small Business Fund LLC	84-5063008		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
BHOVI Incentive LLC	None		Delaware
BIG Real Estate Fund GP LLC	None		Delaware
BIG Real Estate Incentive I LLC	None		Delaware
BIG Real Estate Incentive II LLC	None		Delaware
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	None		Delaware
CREF X GP LLC	None		Delaware
Great Lakes III GP, LLC	04-1590850		Delaware
Lake Jackson LLC	None		Delaware
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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MML Mezzanine Investor II, LLC	04-1590850		Delaware
MML Mezzanine Investor III, LLC	04-1590850		Delaware
MassMutual External Benefits Group LLC	27-3576835		Delaware
<b>Other Affiliates &amp; Funds:</b>			
100 w. 3 <sup>rd</sup> Street LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	82-2432216		Delaware
2160 Grand Manager LLC	04-1590850		Delaware
300 South Tryon LLC	04-1590850		Delaware
Almack Mezzanine Fund II Unleveraged LP	None		United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	82-3468147		Delaware
Barings Affordable Housing Mortgage Fund II LLC	61-1902329		Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663		Delaware
Barings Asset-Based Income Fund (US) LP	36-4868350		Delaware
Barings Emerging Markets Corporate Bond Fund*	None		Ireland
Barings European Real Estate Debt Income Fund	None		Luxembourg
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Barings US High Yield Bond Fund*	None		Ireland
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-I	None		Cayman Islands
southBabson 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
Barings CLO 2021-III	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2014-II BV	None		Netherlands
Babson Euro CLO 2015-I BV	None		Netherlands

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Barings Euro CLO 2019-I	3603726OH		Ireland
Barings Euro CLO 2019-II	None		Ireland
Barings Euro CLO 2020-I DAC	None		Ireland
Barings Euro CLO 2021-I DAC	3715576VH		Ireland
Barings Euro CLO 2021-II DAC	3750378QH		Ireland
Barings Euro CLO 2021-III DAC	None		Ireland
Barings Global Em. Markets Equity Fund	82-5330194		North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands
Barings Global Inv. Grade Strat Fund	None		Ireland
Barings Global Real Assets Fund LP	82-3867745		Delaware
Barings Global Special Situations Credit Fund 3	None		Ireland
Barings Global Special Situations Credit 4 Delaware*	85-1465973		Delaware
Barings Global Special Situations Credit 4 LUX*	98-1570693		Luxembourg
Barings Global Technology Equity Fund	HU7DQ.00011.SF.372(GIIN)		Ireland
Barings Hotel Opportunity Venture	87-0977058		Connecticut
Barings Innovations & Growth Real Estate Fund*	86-3661023		Delaware
Barings Middle Market CLO 2017-I Ltd & LLC	None		Cayman Islands
Barings Middle Market CLO 2018-I	None		Cayman Islands
Barings Middle Market CLO 2019-I	None		Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604		Cayman Islands
Barings North American Private Loan Fund LP	38-4010344		Delaware
Barings RE Credit Strategies VII LP	98-1332384		Delaware
Barings Target Yield Infrastructure Debt Fund*	98-1567942		Luxembourg
Barings CLO Investment Partners LP	81-0841854		Delaware
Barings Euro Value Add II (BREEVA II)*	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
Barings Transportation Fund LP*	87-1262754		Delaware
Braemar Energy Ventures I, L.P.*	None		Delaware
Barings European Core Property Fund SCSp	None		Luxembourg
Barings European Private Loan Fund III A	46-5001122		Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932		New York
Benchmark 2018-B4	None		New York
Benchmark 2018-B8	38-4096530		New York
Barings Core Property Fund LP	20-5578089		Delaware
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
GIA EU Holdings - Emerson JV Sarl	EIN 98-1607033		Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-4041012		New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059		New York

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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
KKR-MM Vector LP	82-1512591		Delaware
Marco Hotel LLC	46-4255307		Delaware
Miami Douglas One GP LLC*	04-1590850		Delaware
Miami Douglas Two GP LLC*	04-1590850		Delaware
Miami Douglas One LP*	04-1590850		Delaware
Miami Douglas Two LP*	04-1590850		Delaware
Miami Douglas Three MM LLC	04-1590850		Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641		Delaware
NYDIG Digital Assets Fund II LP	85-3886824		Delaware
HB Naples Golf Owner LLC	45-3623262		Delaware
MM CM Holding LLC	None		Delaware
MM Debt Participations LLC	81-3000420		Delaware
RB Apartments LLC	82-4411267		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
Ten Fan Pier Boulevard LLC	35-2553915		Delaware
Tower Square Capital Partners III, L.P.	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129		Delaware
Trailside MM Member LLC*	04-1590850		Delaware
Washington Gateway Two LLC*	83-1325764		Delaware
Washington Gateway Three LLC*	32-0574045		Delaware
West 46 <sup>th</sup> Street Hotel LLC	05-1590850		Delaware
<b>Barings Affiliates &amp; Funds:</b>			
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	HU7DQL.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
<b>Barings Real Estate Affiliates &amp; Funds:</b>			
50 Liberty LLC*	36-4823011		Delaware
Barings California Mortgage Fund IV	None		California
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None		Luxembourg
Calgary Railway Holding LLC*	82-2285211		Delaware
Cornbrook 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

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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Cornerstone Permanent Mortgage Fund III	35-2531693		Massachusetts
Cornerstone Permanent Mortgage Fund IV	61-1793735		Massachusetts
CREA/PPC Venture LLC	20-0348173		Delaware
Danville Riverwalk Venture, LLC	82-2783393		Delaware
Euro Real Estate Holdings LLC	04-1590850		Delaware
Fan Pier Development LLC*	20-3347091		Delaware
GIA EU Holdings LLC	04-1590850		Delaware
Landmark Manchester Holdings LLC	81-5360103		Delaware
MM Brookhaven Member LLC	04-1590850		Delaware
MM East South Crossing Member LLC	04-1590850		Delaware
MM Horizon Savannah Member LLC*	04-1590850		Delaware
MM National Self-Storage Program Member LLC	04-1590850		Delaware
MM 1400 E 4th Street Member LLC	04-1590850		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
PACO France Logistics LLC	04-1590850		Delaware
Portland 400 Sixth Manager LLC	82-3393166		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Sawgrass Village Shopping Center LLC*	27-2977720		Delaware
STOA Holding LLC	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Twenty Two Liberty LLC*	35-2484550		Massachusetts
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
<b>MassMutual Premier Funds:</b>			
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
<b>MassMutual Select Funds:</b>			
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

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

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

### PART 1 – ORGANIZATIONAL CHART

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	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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
<b>MML Series Investment Funds:</b>			
MML Series International Equity Fund	46-4257056		Massachusetts
<b>MML Series Investment Funds II:</b>			
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
<b>MassMutual RetireSMART Funds:</b>			
MassMutual RetireSMART 2035 Fund	27-1933380		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207		Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235		Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155		Massachusetts
MassMutual 80/20 Allocation Fund	45-1618222		Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464		Massachusetts
MassMutual 40/60 Allocation Fund	45-1618262		Massachusetts
MassMutual 60/40 Allocation Fund	45-1618046		Massachusetts

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tionship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Required? (Yes/No)	*
..0435	Massachusetts Mut Life Ins Co .....	65935	04-1590850	3848388			Massachusetts Mutual Life Insurance Company (MMLIC) .....	MA	UIP	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0435	Massachusetts Mut Life Ins Co .....	93432	06-1041383				C.M. Life Insurance Company .....	CT	IA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0435	Massachusetts Mut Life Ins Co .....	70416	43-0581430				MML Bay State Life Insurance Company .....	CT	IA	C.M. Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000			06-1041383				CML Mezzanine Investor III, LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							CML Special Situations Investor LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							CML Global Capabilities LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MM Global Capabilities I LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MassMutual Global Business Services India LLP .....	IND	NIA	MM Global Capabilities I LLC .....	Ownership	100.000	MMLIC .....		
..0000							MM Global Capabilities (Netherlands) B.V. .....	NLD	NIA	MM Global Capabilities I LLC .....	Ownership	100.000	MMLIC .....		
..0000							MassMutual Global Business Services Romania S.R.L. .....	ROU	NIA	MM Global Capabilities (Netherlands) B.V. .....	Ownership	100.000	MMLIC .....		
..0000							MM Global Capabilities II LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MM Global Capabilities III LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MM/Barings Multifamily TEBS 2020 LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MML Special Situations Investor LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		47-5322979					Timberland Forest Holding LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		47-5322979					Timberland Forest Holding LLC .....	DE	NIA	C.M. Life Insurance Company .....	Influence	0.000	MMLIC .....		
..0000		47-5322979					Timberland Forest Holding LLC .....	DE	NIA	Wood Creek Capital Management LLC .....	Management		MMLIC .....		
..0000							Lyme Adirondack Forest Company, LLC .....	DE	NIA	Timberland Forest Holding LLC .....	Ownership	100.000	MMLIC .....		
..0000							Lyme Adirondack Timberlands I, LLC .....	DE	NIA	Lyme Adirondack Forest Company, LLC .....	Ownership	100.000	MMLIC .....		
..0000							Lyme Adirondack Timberlands II, LLC .....	DE	NIA	Lyme Adirondack Forest Company, LLC .....	Ownership	100.000	MMLIC .....		
..0000							Lyme Adirondack Timber Sales, LLC .....	DE	NIA	Lyme Adirondack Forest Company, LLC .....	Ownership	100.000	MMLIC .....		
..0000		04-1590850					Berkshire Way LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		04-1590850					MSP-SC, LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							EM Opportunities LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							MassMutual MCAM Insurance Company, Inc. .....	VT	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		04-1590850					Insurance Road LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		04-1590850					MassMutual Trad Private Equity LLC .....	DE	NIA	Insurance Road LLC .....	Ownership	100.000	MMLIC .....		
..0000		04-1590850					MassMutual Intellectual Property LLC .....	DE	NIA	Insurance Road LLC .....	Ownership	100.000	MMLIC .....		
..0000							Trad Investments I LLC .....	DE	NIA	Insurance Road LLC .....	Ownership	100.000	MMLIC .....		
..0000							ITPSHolding LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							HITPS LLC .....	DE	NIA	ITPS Holding LLC .....	Ownership	100.000	MMLIC .....		
..0000		27-0105644					JFIN Parent LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000		86-2294635					Jefferies Finance LLC .....	DE	NIA	JFIN Parent LLC .....	Ownership	50.000	MMLIC .....		1
..0000		63312	13-1935920				Glidepath Holdings Inc. .....	DE	UIP	Massachusetts Mutual Life Insurance Company .....	Ownership	100.000	MMLIC .....		
..0000							Great American Life Insurance Company .....	OH	UIP	Glidepath Holdings Inc. .....	Ownership	100.000	MMLIC .....		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
0000		93661	31-1422717				AAG Insurance Agency, LLC	KY	N/A	Great American Life Insurance Company	Ownership	100.00	MMILC		
0000			31-1021738				Annuiti Investors Life Insurance Company	OH	N/A	Great American Life Insurance Company	Ownership	100.00	MMILC		
0000			31-1395344				Great American Advisors, LLC	OH	N/A	Great American Life Insurance Company	Ownership	100.00	MMILC		
0000			26-3260520				Manhattan National Holding, LLC	OH	UDP	Great American Life Insurance Company	Ownership	100.00	MMILC		
0000		67083	45-0252531				Manhattan National Life Insurance Company	OH	RE	Manhattan National Holding LLC	Ownership	100.00	MMILC		
0000							MassMutual Mortgage Lending LLC	DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMILC		
0000							Jefferies Private Credit BDC Inc.	MD	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN GP Adviser LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Fund III LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							Jefferies Credit Partners LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							Apex Credit Partners LLC	DE	N/A	Jefferies Credit Partners LLC	Ownership	100.00	MMILC		
0000							Jefferies Credit Management LLC	DE	N/A	Jefferies Credit Partners LLC	Ownership	100.00	MMILC		
0000							JCP Direct Lending CLO 2022 LLC	DE	N/A	Jefferies Credit Partners LLC	Ownership	9.900	MMILC		
0000							JFAM GP LLC	DE	N/A	Jefferies Credit Partners LLC	Ownership	100.00	MMILC		
0000							JFAM GP LP	DE	N/A	Jefferies Credit Partners LLC	Ownership	100.00	MMILC		
0000							Jefferies Direct Lending Fund C LP	DE	N/A	JFAM GP LP	Ownership	100.00	MMILC		
0000							Jefferies DLF C Holdings LLC	DE	N/A	Jefferies Direct Lending Fund C LLC	Ownership	100.00	MMILC		
0000							Jefferies Direct Lending Fund C SPE LLC	DE	N/A	Jefferies DLF C Holdings LLC	Ownership	100.00	MMILC		
0000							JDLF II GP LLC	DE	N/A	Jefferies Credit Partners LLC	Ownership	100.00	MMILC		
0000							JDLF II GP LP	DE	N/A	JDLF II GP LLC	Ownership	100.00	MMILC		
0000							Jefferies Direct Lending Fund II C LP	DE	N/A	JDLF II GP LP	Ownership	100.00	MMILC		
0000							Jefferies DLF II C Holdings LLC	DE	N/A	Jefferies Direct Lending Fund II C LP	Ownership	100.00	MMILC		
0000							Jefferies Direct Lending Fund II C SPE LLC	DE	N/A	Jefferies DLF II C Holdings LLC	Ownership	100.00	MMILC		
0000							Jefferies Senior Lending LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							Jefferies Senior Lending LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Holdings LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Holdings II LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Holdings IV LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Co-Issuer Corporation	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Europe GP, S.a.r.l.	LUX	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							Jefferies Finance Europe, S.L.P.	LUX	N/A	JFIN Europe GP, S.a.r.l.	Ownership	100.00	MMILC		
0000							Jefferies Finance Europe, SCSp	LUX	N/A	JFIN Europe GP, S.a.r.l.	Ownership	100.00	MMILC		
0000							Jefferies Finance Business Credit LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Business Credit Fund I LLC	DE	N/A	Jefferies Finance Business Credit LLC	Ownership	100.00	MMILC		
0000							JFIN Funding 2021 LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN High Yield Investments LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN LC Fund LLC	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2017 Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2017-II Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2017-III Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2018 Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2019 Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2019-II Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2020 Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2021-II Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2021-V Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2022-II Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver CLO 2022-III Ltd.	CYM	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Fund, L.P.	DE	N/A	Jefferies Finance LLC	Ownership	90.00	MMILC		
0000							JFIN Revolver Funding 2021 Ltd.	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Funding 2021 III Ltd.	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Funding 2021 IV Ltd.	DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		
0000							JFIN Revolver Funding 2022-I Ltd.	BMU	N/A	Jefferies Finance LLC	Ownership	100.00	MMILC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
0000						JFIN Revolver SPE1 2022 LLC		DE	N/A	Jefferies Finance LLC	Ownership	100.00	MMLIC		
0000						Apex Credit Holdings LLC		DE	N/A	JFIN Parent LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2012 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2013 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2014 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2014-II Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2015 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2015-II Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	85.00	MMLIC		
0000						JFIN CLO 2016 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2017 Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000						JFIN CLO 2017-II Ltd.		CY.M	N/A	Apex Credit Partners LLC	Ownership	100.00	MMLIC		
0000			04-1590850			MM Copper Hill Road LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000						MM Direct Private Investments Holding LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000						MM Direct Private Investments UK Limited		GBR	N/A	MM Direct Private Investments Holding LLC	Ownership	100.00	MMLIC		
0000						MM Investment Holding		CY.M	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000		26-0073611				MassMutual Asset Finance LLC		DE	N/A	MM Investment Holding	Ownership	99.60	MMLIC		
0000		26-0073611				MassMutual Asset Finance LLC		DE	N/A	C.M. Life Insurance Company	Ownership	0.400	MMLIC		
0000		90-1005837				MMAF Equipment Finance LLC 2013-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		36-4785301				MMAF Equipment Finance LLC 2014-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		38-3969560				MMAF Equipment Finance LLC 2015-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		32-0489588				MMAF Equipment Finance LLC 2016-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		35-2590691				MMAF Equipment Finance LLC 2017-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		32-0546197				MMAF Equipment Finance LLC 2017-B		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		82-5335801				MMAF Equipment Finance LLC 2018-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		83-3722640				MMAF Equipment Finance LLC 2019-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000						MMAF Equipment Finance LLC 2019-B		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000						MMAF Equipment Finance LLC 2021-A		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000						Rozier LLC		DE	N/A	MassMutual Asset Finance LLC	Ownership	100.00	MMLIC		
0000		04-2443240				MML Management Corporation		MA	N/A	MM Investment Holding	Ownership	100.00	MMLIC		
0000		04-3548444				MassMutual International Holding MSC, Inc.		MA	N/A	MML Management Corporation	Ownership	100.00	MMLIC		
0000		04-3341767				MassMutual Holding MSC, Inc.		MA	N/A	MML Management Corporation	Ownership	100.00	MMLIC		
0000						MML CM LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000						Blueprint Income LLC		NY	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000						Flourish Digital Assets LLC		DE	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000						Flourish Financial LLC		DE	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000						Flourish Holding Company LLC		DE	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000						Flourish Insurance Agency LLC		DE	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000						Flourish Technologies LLC		DE	N/A	MML CM LLC	Ownership	100.00	MMLIC		
0000			04-3356880			MML Distributors LLC		MA	N/A	Massachusetts Mutual Life Insurance Company	Ownership	99.00	MMLIC		
0000			04-3356880			MML Distributors LLC		MA	N/A	MassMutual Holding LLC	Ownership	1.00	MMLIC		
0000						MML Investment Advisers, LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000			46-3238013			MML Strategic Distributors, LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000			06-1563535	2881445		The MassMutual Trust Company, FSB		CT	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
0000			04-1590850			MML Private Placement Investment Company I, LLC		DE	N/A	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Required? (Yes/No)	*
..0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership, Management	100.00	MMILIC		
..0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Baring Asset Management Limited	Management		MMILIC		
..0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMILIC		
..0000			45-2738137				Pioneers Gate LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMILIC		
..0000			45-2738137				Pioneers Gate LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMILIC		
..0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			06-1597528				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			37-1732913				Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000							Low Carbon Energy Holding	GBR	NIA	MassMutual Holding LLC	Ownership	49.00	MMILIC		
..0000							Sleeper Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			46-2252944				Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000							Athens Fund Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.00	MMILIC		
..0000							MassMutual Ventures Management LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures SEA Management Private Limited	DE	NIA	MassMutual Ventures Management LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures Southeast Asia I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures Southeast Asia II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures Southeast Asia III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MMV Digital I LLC	CYM	NIA	MassMutual Ventures Southeast Asia III LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures UK LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000			47-1296410				MassMutual Ventures US I LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures US II LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							MassMutual Ventures US IV LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							Open Alternatives LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000			04-1590850				MM Rothesay Holdco US LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.00	MMILIC		
..0000							Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership	48.80	MMILIC		
..0000							Rothesay Life Plc	GBR	NIA	Rothesay Limited	Ownership	100.00	MMILIC		
..0000							Rothesay MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							Rothesay MA No.2 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							Rothesay MA No.3 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							Rothesay MA No.4 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							LT Mortgage Finance Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							Rothesay Property Partnership 1 LLP	GBR	NIA	Rothesay Life PLC	Ownership	100.00	MMILIC		
..0000							Rothesay Foundation	GBR	NIA	Rothesay Limited	Ownership	100.00	MMILIC		
..0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership	100.00	MMILIC		
..0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership	100.00	MMILIC		
..0000							Rothesay Asset Management Australia Pty Ltd	AUS	NIA	Rothesay Asset Management UK Limited	Ownership	100.00	MMILIC		
..0000							Rothesay Asset Management US LLC	DE	NIA	Rothesay Asset Management UK Limited	Ownership	100.00	MMILIC		
..0000			47-1466022				MM Catalyst Fund LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			45-4000072				LifeScore Labs, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			45-4000072				MM Asset Management Holding LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			04-1590850				Barings LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.00	MMILIC		
..0000			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.00	MMILIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
0000		41-2011634				MMLISI Financial Alliances, LLC		DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
0000		51-0504477				Barings LLC		DE	NIA	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		
0000		98-0524271				Baring Asset Management (Asia) Holdings Limited		HKG	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000		98-0457465				Baring International Fund Managers (Bermuda) Limited		BMU	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		
0000		98-0457463				Baring Asset Management (Asia) Limited		HKG	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		
0000						Baring Asset Management Korea Limited		KOR	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
0000						Barings Investment Management (Shanghai) Limited		HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
0000						Barings Overseas Investment Fund Management (Shanghai) Limited		HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
0000			98-0457707			Baring SICE (Taiwan) Limited		TWN	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		
0000						Barings Singapore Pte. Ltd.		SGP	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0236449			Barings Japan Limited		JPN	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0457456			Barings Australia Holding Company Pty Ltd		AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000			80-0875475			Barings Australia Pty Ltd		AUS	NIA	Baring Australia Holding Company Pty Ltd	Ownership	100.000	MMLIC		
0000						Barings Finance LLC		DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000						BCF Europe Funding Limited		IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000						BCF Senior Funding I LLC		DE	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000						BCF Senior Funding I Designated Activity Company		IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
0000						Barings Real Estate Acquisitions LLC		DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000		04-3238351				Barings Securities LLC		DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000		98-0437588				Barings Guernsey Limited		GGY	NIA	Barings LLC	Ownership	100.000	MMLIC		
0000						Barings Europe Limited		GBR	NIA	Barings Guernsey Limited	Ownership	100.000	MMLIC		
0000						Barings Asset Management Spain SL		ESP	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000						Barings GmbH		DEU	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000						Barings Italy S.r.l.		ITA	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000						Barings Sweden AB		SWE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000						Barings Netherlands B.V.		NLD	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000						Barings Real Estate UK Holdings Limited		DE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000			98-0432153			Barings (U.K.) Limited		GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000			98-0241935			Baring Asset Management Limited		GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
0000			98-1012393			Barings European Direct Lending 1 GP LLP		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-0457328			Barings Global Advisors Limited		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000						Baring International Investment Limited		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000						Baring International Investment Management Holdings		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-0457587					GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			98-0457576			Baring Asset Management UK Holdings Limited		GBR	NIA	Baring International Investment Management Holdings	Ownership	100.000	MMLIC		
0000			98-0524272			Baring International Fund Managers (Ireland) Limited		IRL	NIA	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC		
0000						Baring Asset Management Switzerland Sàrl		CHE	NIA	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0497550			Baring France SAS		FRA	NIA	Baring Asset Management UK Holdings Limited	Ownership	100.000	MMLIC		
0000			98-0457586			Baring Fund Managers Limited		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000						BCGSS 2 GP LLP		GBR	NIA	Baring Fund Managers Limited	Ownership	100.000	MMLIC		
0000			98-0457578			Baring Investment Services Limited		GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
0000						Barings Core Fund Feeder I GP S.à.r.l.	LUX	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						Barings BME GP S.à.r.l.	GBR	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						Barings GPC GP S.à. r.l.	LUX	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						Barings European Core Property Fund GP Sàrl	GBR	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						Barings Investment Fund (LUX) GP S.à. r.l.	LUX	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						Barings Umbrella Fund (LUX) GP S.à.r.l.	LUX	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						GPLF4(S) GP S.à.r.l.	LUX	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						PREIF Holdings Limited Partnership	GBR	NIA		Baring Asset Management Limited	Ownership	100.00	MMLIC		
0000						BMC Holdings DE LLC	DE	NIA		Barings LLC	Ownership	100.00	MMLIC		
0000			04-3238351	3456895		Barings Real Estate Advisers Inc.	CA	NIA		Barings LLC	Ownership	100.00	MMLIC		
0000		81-2244465				Chassis Acquisition Holding LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership/Influence	30.00	MMLIC		
0000		81-4258759				CRA Aircraft Holding LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership/Influence	40.00	MMLIC		
0000		81-4258759				CRA Aircraft Holding LLC	DE	NIA		Barings LLC	Influence		MMLIC		
0000		83-0560183				Aland Royalty Holdings LP	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership	26.700	MMLIC		
0000		83-0560183				Aland Royalty Holdings LP	DE	NIA		Barings LLC	Management		MMLIC		
0000		82-2932156				GASL Holdings LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership	11.300	MMLIC		
0000		82-2932156				GASL Holdings LLC	DE	NIA		Barings LLC	Board		MMLIC		
0000		46-2344300				Intermodal Holdings II LLC	DE	NIA		Company	Ownership	18.000	MMLIC		
0000		46-2344300				Intermodal Holdings II LLC	DE	NIA		Barings LLC	Management		MMLIC		
0000		47-3055009				Milestone Acquisition Holding, LLC	DE	NIA		MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		
0000						Novation Companies, Inc.	MD	NIA		Massachusetts Mutual Life Insurance Company	Ownership	17.100	MMLIC		
0000						Novation Companies, Inc.	MD	NIA		Barings LLC	Influence		MMLIC		
0000		46-5460309				Red Lake Ventures, LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership/Influence	31.500	MMLIC		
0000		46-5460309				Red Lake Ventures, LLC	DE	NIA		Barings LLC	Influence		MMLIC		
0000		81-4065378				Remington L & W Holdings LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership/Influence	19.900	MMLIC		
0000		81-4065378				Remington L & W Holdings LLC	DE	NIA		Barings LLC	Influence		MMLIC		
0000						Tamiami Citrus, LLC	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership	15.700	MMLIC		
0000						Tamiami Citrus, LLC	DE	NIA		Barings LLC	Management/Board		MMLIC		
0000						Teaktree Acquisition, LLC	DE	NIA		MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
0000						Teaktree Acquisition, LLC	DE	NIA		Barings LLC	Influence		MMLIC		
0000						Techquity, LP	DE	NIA		Massachusetts Mutual Life Insurance Company	Ownership	15.600	MMLIC		
0000						Techquity, LP	DE	NIA		Barings LLC	Influence		MMLIC		
0000						EIP Holdings I, LLC	DE	NIA		Company	Ownership/Influence	29.000	MMLIC		
0000			46-0687392			Validus Holding Company LLC	DE	NIA		Barings LLC	Ownership	40.400	MMLIC		
0000						VGS Acquisition Holding, LLC	DE	NIA		MassMutual Holding LLC	Ownership/Influence	33.300	MMLIC		
0000						VGS Acquisition Holding, LLC	DE	NIA		Barings LLC	Management		MMLIC		
0000						Aland Royalty GP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		
0000						Alaska Future Fund GP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		
0000						BAI GP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		
0000						BAI Funds SLP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		
0000						Baring Asset-Based Income Fund (US) GP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		
0000						Barings CMS Fund GP, LLC	DE	NIA		Barings LLC	Ownership	100.000	MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
..0000						Barings Hotel Opportunity Venture I GP, LLC	DE	N/A	Barings Company	Massachusetts Mutual Life Insurance	Ownership.	100.00	MMLIC		
..0000						Barings Investment Series LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Emerging Generation Fund GP, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Emerging Generation Fund GP II, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings ERS PE Emerging Manager III GP, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Global Investment Funds (U.S.) Management LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			04-1590850			Barings CLO Investment Partners GP, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Core Property Fund GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Direct Lending GP Ltd.	CYM	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000										Massachusetts Mutual Life Insurance					
..0000		84-3784245				Barings Emerging Generation Fund LP	DE	N/A	Barings Company	Barings	Ownership.	38.900	MMLIC		
..0000		84-3784245				Barings Emerging Generation Fund LP	DE	N/A	Barings LLC	Barings	Management.		MMLIC		
..0000						Barings Global Energy Infrastructure Advisors, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings North American Private Loan Fund Management, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings North American Private Loan Fund Management II, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings North American Private Loan Fund Management III, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings Global Real Assets Fund GP, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Barings GPSF	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000										Massachusetts Mutual Life Insurance					
..0000		84-5063008				Barings Small Business Fund LLC	DE	N/A	Barings Company	Barings	Ownership.	51.400	MMLIC		
..0000		84-5063008				Barings Small Business Fund LLC	DE	N/A	Barings LLC	Barings	Management.		MMLIC		
..0000		98-0536233				Benton Street Advisors, Inc.	CYM	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BHOVI Incentive LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BIG Real Estate Fund GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BIG Real Estate Incentive I LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BIG Real Estate Incentive II LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BRECS VII GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						BREDIF GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						CREF X GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			04-1590850			Great Lakes III GP, LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Lake Jackson LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			04-1590850			Loan Strategies Management LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			41-2280126			Mezzco III LLC	DE	N/A	Barings LLC	Barings	Ownership.	99.300	MMLIC		
..0000			80-0920285			Mezzco IV LLC	DE	N/A	Barings LLC	Barings	Ownership.	99.300	MMLIC		
..0000						Mezzco Australia II LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						PECSA-NY GP LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			04-1590850			SBNP SIA II LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						SBNP SIA III LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000			04-1590850			Somerset Special Opportunities Management LLC	DE	N/A	Barings LLC	Barings	Ownership.	100.00	MMLIC		
..0000						Anherst Long Term Holdings, LLC	DE	N/A	Barings Company	Massachusetts Mutual Life Insurance	Ownership.	24.500	MMLIC		
..0000			04-3313782			Masslmutual International LLC	DE	N/A	Massachusetts Mutual Life Insurance Company	MassMutual International LLC	Ownership.	100.00	MMLIC		
..0000						Masslmutual Solutions LLC	DE	N/A	MassMutual Solutions LLC	MassMutual International LLC	Ownership.	100.00	MMLIC		
..0000						Haven Technologies Asia Limited	HKG	N/A	Haven Technologies Asia Limited	MassMutual International LLC	Ownership.	100.00	MMLIC		
..0000						Yunfeng Financial Group Limited	HKG	N/A	Yunfeng Financial Group Limited	MassMutual International LLC	Ownership.	24.900	MMLIC		
..0000						MassMutual Asia Limited (SPV)	HKG	N/A	MassMutual Asia Limited (SPV)	MassMutual International LLC	Ownership.	100.00	MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tion- ship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
..0000			04-1590850				MML Mezzanine Investor II, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				MML Mezzanine Investor III, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	11.100	MMLIC		
..0000			27-3576835				MassMutual External Benefits Group LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				100 w. 3rd Street LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				2160 Grand Manager LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	5.000	MMLIC		
..0000			82-2432216				300 South Tryon Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				300 South Tryon LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	72.900	MMLIC		
..0000							Barings Affordable Housing Mortgage Fund I LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000							Barings Affordable Housing Mortgage Fund I LLC	DE	NIA	Barings LLC	Management		MMLIC		
..0000			61-1902329				Barings Affordable Housing Mortgage Fund II LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			61-1902329				Barings Affordable Housing Mortgage Fund II LLC	DE	NIA	Barings LLC	Management		MMLIC		
..0000			85-3036663				Barings Affordable Housing Mortgage Fund III LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			85-3036663				Barings Affordable Housing Mortgage Fund III LLC	DE	NIA	Barings LLC	Management		MMLIC		
..0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	11.200	MMLIC		
..0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC		
..0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Barings LLC	Management		MMLIC		
..0000							Barings Emerging Markets Corporate Bond Fund	IRL	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	48.900	MMLIC		
..0000							Barings Emerging Markets Corporate Bond Fund	IRL	NIA	Barings LLC	Ownership		MMLIC		
..0000							Barings European Real Estate Debt Income Fund	LUX	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	15.800	MMLIC		
..0000							Barings European Real Estate Debt Income Fund	LUX	NIA	Barings LLC	Influence		MMLIC		
..0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	75.100	MMLIC		
..0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
..0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	Barings LLC	Management		MMLIC		
..0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	1.500	MMLIC		
..0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		
..0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA	Barings LLC	Management		MMLIC		
..0000							Barings US High Yield Bond Fund	IRL	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	54.300	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		2

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- iliary Loca- tion	10 Relation- ship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
0000						Babson CLO Ltd. 2015-I	CYU	NIA	Barings LLC	Influence	MMLIC			3	
0000						Babson CLO Ltd. 2015-II	CYU	NIA	Barings LLC	Influence	MMLIC			4	
0000						Babson CLO Ltd. 2016-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Babson CLO Ltd. 2016-II	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO Ltd. 2017-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2018-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2018-IV	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2019-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2019-IV	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2020-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2020-II	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2020-III	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2020-IV	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2021-I	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2021-II	CYU	NIA	Barings LLC	Influence	MMLIC				
0000						Barings CLO 2021-III	CYU	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				
0000						Babson Euro CLO 2015-I BV	NLD	NIA	Barings LLC	Influence	MMLIC				
0000						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						Barings Euro CLO 2020-I DAC	IRL	NIA	Barings LLC	Influence	MMLIC				
0000						Barings Euro CLO 2021-I DAC	IRL	NIA	Barings LLC	Influence	MMLIC				
0000						Barings Euro CLO 2021-II DAC	IRL	NIA	Barings LLC	Influence	MMLIC				
0000						Barings Euro CLO 2021-III DAC	IRL	NIA	Barings LLC	Influence	MMLIC				
0000									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			
0000						Barings Euro Value Add II (BREEVA II)	LUX	NIA	Company	Ownership/Influence	30.000	MMLIC			
0000						Barings Euro Value Add II (BREEVA II)	LUX	NIA	C.M. Life Insurance Company	Ownership	2.600	MMLIC			
0000						Barings Euro Value Add II (BREEVA II)	LUX	NIA	Barings LLC	Management		MMLIC			
0000						Barings Real Estate European Value Add I SCS	GBR	NIA	Massachusetts Mutual Life Insurance	Ownership/Influence	44.500	MMLIC			
0000						Barings Real Estate European Value Add I SCS	GBR	NIA	Company	Ownership	4.900	MMLIC			
0000						Barings Real Estate European Value Add I SCS	GBR	NIA	C.M. Life Insurance Company			MMLIC			
0000									Barings LLC	Management		MMLIC			
0000		85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Massachusetts Mutual Life Insurance	Ownership/Influence	90.800	MMLIC			
0000		85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	C.M. Life Insurance Company	Influence		MMLIC			
0000		85-3449260				Barings Real Estate Debt Income Fund LP	DE	NIA	Barings LLC	Management		MMLIC			
0000		82-5330194				Barings Global Em. Markets Equity Fund	NC	NIA	Barings LLC	Management		MMLIC			
0000		98-1332384				Barings Global Energy Infrastructure Fund I LP	CYU	NIA	Massachusetts Mutual Life Insurance	Ownership/Influence	99.200	MMLIC			
0000		98-1332384				Barings Global Energy Infrastructure Fund I LP	CYU	NIA	Baring Asset Management Limited	Management		MMLIC			
0000						Barings Global Dividends Champion Fund	IRL	NIA	Barings LLC	Management		MMLIC			
0000						Barings Global Inv. Grade Strat Fund	IRL	NIA	Barings LLC	Management		MMLIC			
0000		82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Massachusetts Mutual Life Insurance	Ownership/Influence	40.400	MMLIC			
0000		82-3867745				Barings Global Real Assets Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.100	MMLIC			
0000		82-3867745				Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management		MMLIC			

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Required? (Yes/No)	*
..0000						Barings Global Special Situations Credit Fund 3		.IRL	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	17.600	MMLIC		
..0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	68.200	MMLIC		
..0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	C.M. Life Insurance Company	Ownership	3.600	MMLIC		
..0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	Barings LLC	Management		MMLIC		
..0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	16.500	MMLIC		
..0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	C.M. Life Insurance Company	Ownership	0.900	MMLIC		
..0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	Barings LLC	Management		MMLIC		
..0000						Barings Global Special Situations Credit Fund 3		.IRL	.NIA	Barings LLC	Management		MMLIC		
..0000						Barings Global Technology Equity Fund		.IRL	.NIA	Barings LLC	Ownership/Influence	73.700	MMLIC		
..0000		87-0977058				Barings Hotel Opportunity Venture		.CT	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	75.400	MMLIC		
..0000		87-0977058				Barings Hotel Opportunity Venture		.CT	.NIA	Barings LLC	Management		MMLIC		
..0000		86-3661023				Barings Innovations & Growth Real Estate Fund		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	38.700	MMLIC		
..0000		86-3661023				Barings Innovations & Growth Real Estate Fund		.DE	.NIA	C.M. Life Insurance Company	Ownership	0.600	MMLIC		
..0000						Barings Middle Market CLO 2017-I Ltd & LLC		.CYM	.NIA	Barings LLC	Influence		MMLIC		
..0000						Barings Middle Market CLO 2018-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
..0000						Barings Middle Market CLO 2019-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
..0000		98-1612604				Barings Middle Market CLO Ltd 2021-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
..0000						Barings North American Private Loan Fund LP		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	36.600	MMLIC		
..0000						Barings North American Private Loan Fund LP		.DE	.NIA	Baring Asset Management Limited	Management		MMLIC		
..0000		98-1332384				Barings RE Credit Strategies VII LP		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	33.200	MMLIC		
..0000		98-1332384				Barings RE Credit Strategies VII LP		.DE	.NIA	Baring Asset Management Limited	Management		MMLIC		
..0000		98-1567942				Barings Target Yield Infrastructure Debt Fund		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	33.300	MMLIC		
..0000		98-1567942				Barings Target Yield Infrastructure Debt Fund		.LUX	.NIA	Baring Asset Management Limited	Management		MMLIC		
..0000		87-1262754				Barings Transportation Fund LP		.DE	.NIA	MassMutual Holding LLC	Ownership/Influence	11.500	MMLIC		
..0000		87-1262754				Barings Transportation Fund LP		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	8.100	MMLIC		
..0000						Braemar Energy Ventures I, L.P.		.DE	.NIA	Company	Ownership/Influence	89.000	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	9.000	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		MMLIC		
..0000		46-5001122				Barings European Private Loan Fund III A		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	68.600	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						Barings Core Property Fund LP		.DE	.NIA	MassMutual Holding LLC	Ownership/Influence	22.300	MMLIC		
						20-5578089									

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
..0000			20-5578089				Barings Core Property Fund LP	.DE.	.NIA.	Barings Real Estate Advisers LLC	Management		MMLIC		
..0000			46-5432619				Cornerstone Real Estate Fund X LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	27.400	MMLIC		
..0000			46-5432619				Cornerstone Real Estate Fund X LP	.DE.	.NIA.	C.M. Life Insurance Company	Ownership	3.000	MMLIC		
..0000			46-5432619				Cornerstone Real Estate Fund X LP	.DE.	.NIA.	Barings Real Estate Advisers LLC	Management		MMLIC		
..0000			35-2531693				Cornerstone Permanent Mortgage Fund III LLC	.MA.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	100.000	MMLIC		
..0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	.MA.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	32.100	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		
..0000			37-1708623				Great Lakes III, L.P.	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	41.400	MMLIC		
..0000			37-1708623				Great Lakes III, L.P.	.DE.	.NIA.	Barings LLC	Management		MMLIC		
..0000							GIA EU Holdings - Emerson JV Sarl	.LUX.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	49.800	MMLIC		
..0000							GIA EU Holdings - Emerson JV Sarl	.LUX.	.NIA.	Barings LLC	Management		MMLIC		
..0000							JPMCC Commercial Mortgage Securities Trust								
..0000			38-4041011				2017-JP7								
..0000			38-4032059				JPMDB Commercial Mortgage Securities Trust								
..0000			82-1512591				2017-C5								
..0000			46-4255307				KKR-MM Vector LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	100.000	MMLIC		
..0000			04-1590850				Marco Hotel LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				Miami Douglas One GP LLC	.DE.	.NIA.	C.M. Life Insurance Company	Influence	0.000	MMLIC		
..0000			04-1590850				Miami Douglas One GP LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	5.500	MMLIC		
..0000			04-1590850				Miami Douglas Two GP LLC	.DE.	.NIA.	C.M. Life Insurance Company	Influence	0.000	MMLIC		
..0000			04-1590850				Miami Douglas Two GP LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000			04-1590850				Miami Douglas One LP	.DE.	.NIA.	C.M. Life Insurance Company	Ownership	90.000	MMLIC		
..0000			04-1590850				Miami Douglas One LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	10.000	MMLIC		
..0000			04-1590850				Miami Douglas Two LP	.DE.	.NIA.	C.M. Life Insurance Company	Ownership	90.000	MMLIC		
..0000			04-1590850				Miami Douglas Two LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	10.000	MMLIC		
..0000			04-1590850				Miami Douglas Three MM LLC	.DE.	.NIA.	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
..0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	27.000	MMLIC		
..0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	.DE.	.NIA.	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
..0000			85-3886824				NYDIG Digital Assets Fund II LP	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			45-3623262				HB Naples Golf Owner LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000							MM CM Holding LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			81-3000420				MM Debt Participations LLC	.DE.	.NIA.	Barings LLC	Ownership/Influence	100.000	MMLIC		
..0000			81-3000420				MM Debt Participations LLC	.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Management		MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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..0000			82-4411267				RB Apartments LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000			20-8856877				Somerset Special Opportunities Fund L.P. ....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	40.100	MMLIC .....		
..0000			20-8856877				Somerset Special Opportunities Fund L.P. ....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	1.900	MMLIC .....		
..0000			35-2553915				Ten Fan Pier Boulevard LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000			41-2280127				Tower Square Capital Partners III, L.P. ....	DE	NIA	Barings LLC .....	Management.....		MMLIC .....		
..0000			41-2280127				Tower Square Capital Partners III, L.P. ....	DE	NIA	MassMutual Holding LLC .....	Ownership/Influence .....	17.700	MMLIC .....		
..0000			41-2280129				Tower Square Capital Partners IIIA, L.P. ....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	96.800	MMLIC .....		
..0000			41-2280129				Tower Square Capital Partners IIIA, L.P. ....	DE	NIA	Barings LLC .....	Management.....		MMLIC .....		
..0000			04-1590850				Trailside MM Member LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	59.600	MMLIC .....		
..0000			04-1590850				Trailside MM Member LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	7.400	MMLIC .....		
..0000			83-1325764				Washington Gateway Two LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	89.300	MMLIC .....		
..0000			83-1325764				Washington Gateway Two LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	6.700	MMLIC .....		
..0000			32-0574045				Washington Gateway Three LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	83.900	MMLIC .....		
..0000			32-0574045				Washington Gateway Three LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	11.400	MMLIC .....		
..0000			04-1590850				West 46th Street Hotel LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000							Babson Capital Loan Strategies Master Fund LP .....	CYU	NIA	Barings LLC .....	Management.....		MMLIC .....		
..0000							Barings China Aggregate Bond Private Securities Investment Fund .....	CHN	NIA	Barings LLC .....	Management.....		MMLIC .....		
..0000							Barings European Growth Trust Fund .....	GBR	NIA	Barings LLC .....	Ownership/Influence .....	15.900	MMLIC .....		
..0000			47-3790192				Barings Global High Yield Fund .....	MA	NIA	Barings LLC .....	Management.....		MMLIC .....		
..0000							CCIC Fund .....	CHN	NIA	Barings LLC .....	Ownership/Influence .....	66.200	MMLIC .....		
..0000			71-1018134				Great Lakes II LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	10.600	MMLIC .....		
..0000			71-1018134				Great Lakes II LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	0.100	MMLIC .....		
..0000			04-1590850				Wood Creek Venture Fund LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	40.000	MMLIC .....		
..0000			36-4823011				50 Liberty LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	65.000	MMLIC .....		
..0000			36-4823011				50 Liberty LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	5.800	MMLIC .....		
..0000							Barings California Mortgage Fund IV .....	CA	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000							Barings Umbrella Fund LUX SCSp SICAV RAIF .....	LUX	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	50.000	MMLIC .....		
..0000							Barings Umbrella Fund LUX SCSp SICAV RAIF .....	LUX	NIA	C.M. Life Insurance Company .....	Ownership.....	2.300	MMLIC .....		
..0000			82-2285211				Calgary Railway Holding LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	90.000	MMLIC .....		
..0000			82-2285211				Calgary Railway Holding LLC .....	DE	NIA	C.M. Life Insurance Company .....	Ownership.....	10.000	MMLIC .....		
..0000			82-3307907				Cornbrook PRS Holdings LLC .....	DE	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000			95-4207717				Cornerstone California Mortgage Fund I LLC .....	CA	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000			95-4207717				Cornerstone California Mortgage Fund II LLC .....	CA	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		
..0000			95-4207717				Cornerstone California Mortgage Fund III LLC .....	CA	NIA	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000	MMLIC .....		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
..0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	90.000	MMLIC		
..0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
..0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Barings LLC	Management		MMLIC		
..0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NIA	Barings LLC	Management		MMLIC		
..0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			20-0348173				CREA/PPC Venture LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	31.300	MMLIC		
..0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	94.400	MMLIC		
..0000			04-1590850				Euro Real Estate Holdings LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	50.000	MMLIC		
..0000			20-3347091				Fan Pier Development LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	67.300	MMLIC		
..0000			20-3347091				Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
..0000			04-1590850				GIA EU Holdings LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			81-5360103				Landmark Manchester Holdings LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			04-1590850				MM Brookhaven Member LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	95.000	MMLIC		
..0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	95.000	MMLIC		
..0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	88.700	MMLIC		
..0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
..0000			04-1590850				MM National Self-Storage Program Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	98.000	MMLIC		
..0000			04-1590850				MM 1400 E 4th Street Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	96.000	MMLIC		
..0000			80-0948028				One Harbor Shore LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	10.800	MMLIC		
..0000			80-0948028				One Harbor Shore LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
..0000			04-1590850				PACO France Logistics LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000			82-3393166				Portland 400 Sixth Manager LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	5.000	MMLIC		
..0000							Salomon Brothers Commercial Mortgage Trust 2001-MM	DE	NIA	Barings Real Estate Advisers LLC	Influence		MMLIC		
..0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	84.200	MMLIC		
..0000			27-2977720				Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company	Ownership	15.800	MMLIC		
..0000							STOA Holding LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	50.000	MMLIC		
..0000			81-5273574				Three PW Office Holding LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	95.100	MMLIC		
..0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	35.000	MMLIC		
..0000			35-2484550				Twenty Two Liberty LLC	MA	NIA	C.M. Life Insurance Company	Ownership	35.000	MMLIC		
..0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

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..0000			45-5401109			Washington Gateway Apartments Venture LLC		DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	90.700	MMLIC		
..0000			45-5401109			Washington Gateway Apartments Venture LLC		DE	NIA	C.M. Life Insurance Company	Ownership	4.800	MMLIC		
..0000		51-0529328		0000927972	00	MassMutual Premier Main Street Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	90.400	MMLIC		
..0000		26-3229251		0000927972	00	MassMutual Premier Strategic Emerging Markets Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	27.400	MMLIC		
..0000		04-3512593		0000916053	00	MassMutual Select Fundamental Growth Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	2.000	MMLIC		
..0000		42-1710935		0000916053	00	MassMutual Select Mid-Cap Value Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	24.700	MMLIC		
..0000		02-0769954		0000916053	00	MassMutual Select Small Capital Value Equity Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		04-3584140		0000916053	00	MassMutual Select Small Company Value Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	9.300	MMLIC		
..0000		82-3347422		0000916053	00	MassMutual Select T. Rowe Price Retirement 2005 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	5.700	MMLIC		
..0000		82-3355639		0000916053	00	MassMutual Select T. Rowe Price Retirement 2010 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3382389		0000916053	00	MassMutual Select T. Rowe Price Retirement 2015 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3396442		0000916053	00	MassMutual Select T. Rowe Price Retirement 2020 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3417420		0000916053	00	MassMutual Select T. Rowe Price Retirement 2025 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3430358		0000916053	00	MassMutual Select T. Rowe Price Retirement 2030 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3439837		0000916053	00	MassMutual Select T. Rowe Price Retirement 2035 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3451779		0000916053	00	MassMutual Select T. Rowe Price Retirement 2040 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3472295		0000916053	00	MassMutual Select T. Rowe Price Retirement 2045 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3481715		0000916053	00	MassMutual Select T. Rowe Price Retirement 2050 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3502011		0000916053	00	MassMutual Select T. Rowe Price Retirement 2055 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3525148		0000916053	00	MassMutual Select T. Rowe Price Retirement 2060 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		82-3533944		0000916053	00	MassMutual Select T. Rowe Price Retirement Balanced Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		46-4257056				MML Series International Equity Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		47-3517233				MML Series II Asset Momentum Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
..0000		47-3529636				MML Series II Dynamic Bond Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		
..0000		47-3544629				MML Series II Equity Rotation Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	95.700	MMLIC		
..0000		47-3559064				MML Series II Special Situations Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	97.400	MMLIC		
..0000		27-1933389		0000916053	00	MassMutual RetireSMART 2035 Fund		MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	2.800	MMLIC		

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## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

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..0000 ..			27-1932769 ..		0000916053 ..	00 .....	MassMutual RetireSMART 2045 Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	6.200 ..	MMLIC ..		
..0000 ..			46-3289207 ..		0000916053 ..	00 .....	MassMutual RetireSMART 2055 Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	23.600 ..	MMLIC ..		
..0000 ..			47-5326235 ..		0000916053 ..	00 .....	MassMutual RetireSMART 2060 Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	49.700 ..	MMLIC ..		
..0000 ..			45-1618155 ..		0000916053 ..	00 .....	MassMutual 20/80 Allocation Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Influence .....	0.000 ..	MMLIC ..		
..0000 ..			45-1618222 ..		0000916053 ..	00 .....	MassMutual 80/20 Allocation Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	66.100 ..	MMLIC ..		
..0000 ..			03-0532464 ..		0000916053 ..	00 .....	MassMutual RetireSMART In Retirement Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	2.100 ..	MMLIC ..		
..0000 ..			45-1618262 ..		0000916053 ..	00 .....	MassMutual 40/60 Allocation Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Influence .....	0.000 ..	MMLIC ..		
..0000 ..			45-1618046 ..		0000916053 ..	00 .....	MassMutual 60/40 Allocation Fund .....	MA ..	NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	86.500 ..	MMLIC ..		

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

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

## SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

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

	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement? .....	NO
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement? .....	NO
3. Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC? .....	NO
4. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC? .....	NO
5. Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC? .....	NO
6. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC? .....	NO
7. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC? .....	NO
8. Will the Life PBR Statement of Exemption be filed with the state of domicile by July 1st and electronically with the NAIC with the second quarterly filing per the Valuation Manual (by August 15)? (2nd Quarter Only) The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter. .....	YES

### AUGUST FILING

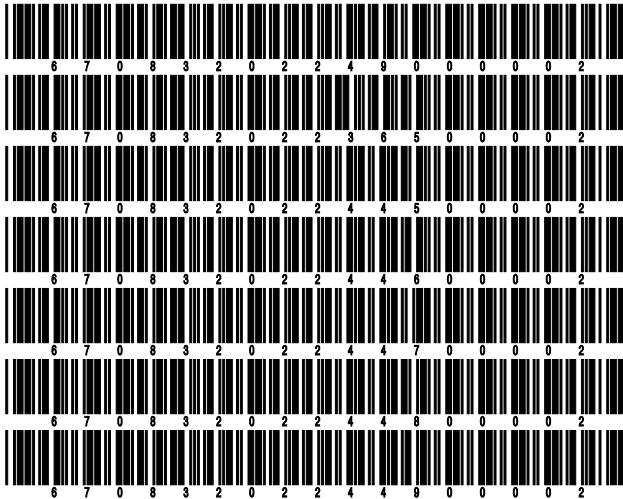
9. Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter. .....	YES
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#### 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.
4. 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]
3. Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]
4. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]
5. Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]
6. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]
7. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]



STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**OVERFLOW PAGE FOR WRITE-INS**

**NONE**

**SCHEDULE A - VERIFICATION**

Real Estate

	1 Year to Date	2 Prior Year Ended 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 carrying value .....		
7. Deduct current year's other than temporary impairment recognized .....		
8. Deduct current year's depreciation .....		
9. Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8) .....		
10. Deduct total nonadmitted amounts .....		
11. Statement value at end of current period (Line 9 minus Line 10) .....		

**NONE****SCHEDULE B - VERIFICATION**

Mortgage Loans

	1 Year to Date	2 Prior Year Ended 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 interest paid and commitment fees .....		
9. Total foreign exchange change in book value/recorded investment excluding accrued interest .....		
10. Deduct current year's other than temporary impairment recognized .....		
11. Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10) .....		
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) .....		

**NONE****SCHEDULE BA - VERIFICATION**

Other Long-Term Invested Assets

	1 Year to Date	2 Prior Year Ended 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. 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 depreciation .....		
9. Total foreign exchange change in book/adjusted carrying value .....		
10. Deduct current year's other than temporary impairment recognized .....		
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10) .....		
12. Deduct total nonadmitted amounts .....		
13. Statement value at end of current period (Line 11 minus Line 12) .....		

**NONE****SCHEDULE D - VERIFICATION**

Bonds and Stocks

	1 Year to Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value of bonds and stocks, December 31 of prior year .....	106,415,916	108,936,961
2. Cost of bonds and stocks acquired .....	13,778,842	1,000,330
3. Accrual of discount .....	175,210	316,208
4. Unrealized valuation increase (decrease) .....	(48,455)	(3,970)
5. Total gain (loss) on disposals .....	396	734
6. Deduct consideration for bonds and stocks disposed of .....	3,948,979	3,737,659
7. Deduct amortization of premium .....	42,230	93,298
8. Total foreign exchange change in book/adjusted carrying value .....	0	3,389
9. Deduct current year's other than temporary impairment recognized .....	0	3,389
10. Total investment income recognized as a result of prepayment penalties and/or acceleration fees .....	0	0
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7+8-9+10) .....	116,330,700	106,415,916
12. Deduct total nonadmitted amounts .....	0	0
13. Statement value at end of current period (Line 11 minus Line 12) .....	116,330,700	106,415,916

## STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

**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

NAIC Designation	1 Book/Adjusted Carrying Value Beginning of Current Quarter	2 Acquisitions During Current Quarter	3 Dispositions During Current Quarter	4 Non-Trading Activity During Current Quarter	5 Book/Adjusted Carrying Value End of First Quarter	6 Book/Adjusted Carrying Value End of Second Quarter	7 Book/Adjusted Carrying Value End of Third Quarter	8 Book/Adjusted Carrying Value December 31 Prior Year
<b>BONDS</b>								
1. NAIC 1 (a) .....	58,866,252	24,237,295	26,743,649	7,966,566	58,866,252	64,326,464	0	57,234,465
2. NAIC 2 (a) .....	53,951,105	0	0	(357,823)	53,951,105	53,593,282	0	43,483,178
3. NAIC 3 (a) .....	1,423,677	0	0	(570,318)	1,423,677	853,359	0	1,930,840
4. NAIC 4 (a) .....	3,451,507	0	0	1,511	3,451,507	3,453,018	0	3,450,033
5. NAIC 5 (a) .....	323,112	0	0	6,511	323,112	329,623	0	317,401
6. NAIC 6 (a) .....	0	0	0	0	0	0	0	0
7. Total Bonds .....	118,015,653	24,237,295	26,743,649	7,046,447	118,015,653	122,555,746	0	106,415,916
<b>PREFERRED STOCK</b>								
8. NAIC 1 .....	0	0	0	0	0	0	0	0
9. NAIC 2 .....	0	0	0	0	0	0	0	0
10. NAIC 3 .....	0	0	0	0	0	0	0	0
11. NAIC 4 .....	0	0	0	0	0	0	0	0
12. NAIC 5 .....	0	0	0	0	0	0	0	0
13. NAIC 6 .....	0	0	0	0	0	0	0	0
14. Total Preferred Stock .....	0	0	0	0	0	0	0	0
15. Total Bonds and Preferred Stock .....	118,015,653	24,237,295	26,743,649	7,046,447	118,015,653	122,555,746	0	106,415,916

(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:

NAIC 1 \$ .....6,225,045 ; NAIC 2 \$ .....0 ; NAIC 3 \$ .....0 NAIC 4 \$ .....0 ; NAIC 5 \$ .....0 ; NAIC 6 \$ .....0

SI02

Schedule DA - Part 1 - Short-Term Investments

**N O N E**

Schedule DA - Verification - Short-Term Investments

**N O N E**

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards

**N O N E**

Schedule DB - Part B - Verification - Futures Contracts

**N O N E**

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

**N O N E**

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

**N O N E**

**SCHEDULE E - PART 2 - VERIFICATION**

(Cash Equivalents)

	1 Year To Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	21,456,915	18,796,067
2. Cost of cash equivalents acquired	98,028,862	66,416,863
3. Accrual of discount	250	
4. Unrealized valuation increase (decrease)	0	
5. Total gain (loss) on disposals	(16)	
6. Deduct consideration received on disposals	113,260,966	63,756,014
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)	6,225,045	21,456,915
11. Deduct total nonadmitted amounts	0	
<b>12. Statement value at end of current period (Line 10 minus Line 11)</b>	<b>6,225,045</b>	<b>21,456,915</b>

Schedule A - Part 2 - Real Estate Acquired and Additions Made  
**N O N E**

Schedule A - Part 3 - Real Estate Disposed  
**N O N E**

Schedule B - Part 2 - Mortgage Loans Acquired and Additions Made  
**N O N E**

Schedule B - Part 3 - Mortgage Loans Disposed, Transferred or Repaid  
**N O N E**

Schedule BA - Part 2 - Other Long-Term Invested Assets Acquired and Additions Made  
**N O N E**

Schedule BA - Part 3 - Other Long-Term Invested Assets Disposed, Transferred or Repaid  
**N O N E**

Schedule D - Part 3 - Long-Term Bonds and Stocks Acquired  
**N O N E**

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

## SCHEDULE D - PART 4

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

1	2	3	4	5	6	7	8	9	10	Change In Book/Adjusted Carrying Value					16	17	18	19	20	21	22	
										11	12	13	14	15								
CUSIP Identification	Description	Foreign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consideration	Par Value	Actual Cost	Prior Year Book/Adjusted Carrying Value	Unrealized Valuation Increase/(Decrease)	Current Year's (Amortization)/Accretion	Current Year's Other Than Temporary Impairment Recognized	Total Change in Book/Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Contractual Maturity Date	NAIC Designation, NAIC Designation Modifier and SVO Administrative Symbol	
..36207H-VH-7	Ginnie Mae I Pool-POOL #432716		06/01/2022	PAYOUT		.91	.91	.92	.91	0	1	0	1	0	.91	0	0	0	0	3	06/01/2026	1.A
..36208C-Y9-2	Ginnie Mae I Pool-POOL #447236		06/01/2022	PAYOUT		.31	.31	.31	.31	0	0	0	0	0	.31	0	0	0	0	1	06/01/2027	1.A
<b>0109999999. Subtotal - Bonds - U.S. Governments</b>						122	122	123	122	0	1	0	1	0	122	0	0	0	0	4	<b>XXX</b>	<b>XXX</b>
..320563-AU-2	Cumberland County Improv-REVENUE BONDS		04/15/2022	MATURITY		2,400,000	2,400,000	2,448,672	2,401,523	0	0	-(1,523)	0	0	2,400,000	0	0	0	0	63,528	04/15/2022	1.E FE
..31287P-D8-3	Freddie Mac Gold Pool-FG 0363727		06/01/2022	PAYOUT		.80	.80	.75	.75	0	6	0	6	0	.80	0	0	0	0	2	02/01/2032	1.A
..31287S-6R-3	Freddie Mac Gold Pool-FG C67180		06/01/2022	PAYOUT		.85	.85	.82	.82	0	3	0	3	0	.85	0	0	0	0	2	01/01/2032	1.A
..31287S-F5-1	Freddie Mac Gold Pool-FG C66477		06/01/2022	PAYOUT		.114	.114	.108	.108	0	6	0	6	0	.114	0	0	0	0	3	04/01/2032	1.A
..31287T-GK-5	Freddie Mac Gold Pool-FG C67402		06/01/2022	PAYOUT		.33	.33	.33	.31	0	2	0	2	0	.33	0	0	0	0	1	05/01/2032	1.A
..31287U-EQ-1	Freddie Mac Gold Pool-FG C68243		06/01/2022	PAYOUT		.45	.45	.45	.45	0	.29	0	.29	0	.45	0	0	0	0	1	06/01/2032	1.A
..31288H-7A-2	Freddie Mac Gold Pool-FG C79899		06/01/2022	PAYOUT		.425	.425	.436	.337	0	.89	0	.89	0	.425	0	0	0	0	10	05/01/2033	1.A
..312914-VY-7	Freddie Mac REMICS-FHR 1474 E		06/01/2022	PAYOUT		.187	.187	.183	.186	0	1	0	1	0	.187	0	0	0	0	5	02/01/2023	1.A
..31292G-5V-4	Freddie Mac Gold Pool-FG C00860		06/01/2022	PAYOUT		.521	.521	.524	.448	0	.73	0	.73	0	.521	0	0	0	0	17	09/01/2029	1.A
..31292H-NH-3	Freddie Mac Gold Pool-FG C01329		06/01/2022	PAYOUT		1,894	1,894	1,901	1,493	0	401	0	401	0	1,894	0	0	0	0	50	02/01/2032	1.A
..31292H-QN-7	Freddie Mac Gold Pool-FG C01361		06/01/2022	PAYOUT		.615	.615	.621	.578	0	.37	0	.37	0	.615	0	0	0	0	15	05/01/2032	1.A
..313398-FC-8	Freddie Mac REMICS-FHR 2333 UZ		06/01/2022	PAYOUT		.570	.570	.548	.670	0	-(100)	0	-(100)	0	.570	0	0	0	0	.15	07/01/2031	1.A
..3133T7-RX-1	Freddie Mac REMICS-FHR 2329 ZA		06/01/2022	PAYOUT		6,389	6,389	6,070	7,256	0	-(867)	0	-(867)	0	6,389	0	0	0	0	173	06/01/2031	1.A
..3133TV-EW-2	Freddie Mac REMICS-FHR 2355 CE		06/01/2022	PAYOUT		1,111	1,111	1,098	1,099	0	.12	0	.12	0	1,111	0	0	0	0	.30	09/01/2031	1.A
..313920-CW-8	Fannie Mae REMICS-FNR 2001-31 ZC		06/01/2022	PAYOUT		.7487	.7487	.7,515	.8,253	0	-(766)	0	-(766)	0	.7,487	0	0	0	0	.202	07/01/2031	1.A
..690353-RX-7	United States International-UNSECURED		06/30/2022	SINKING PAYMENT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,452	02/27/2027	1.
.913366-DG-2	Regents of the University-REVENUE BONDS		05/15/2022	CALL 100		.60,000	.60,000	.59,651	.59,819	0	.13	0	.13	0	.59,832	0	168	.168	.1,937	05/15/2029	1.D FE	
.92812U-03-5	Virginia Housing Develop-REVENUE BONDS		06/01/2022	CALL 100		117,707	117,707	117,707	117,478	0	1	0	1	0	117,478	0	228	228	1,510	12/25/2043	1.A FE	
<b>0909999999. Subtotal - Bonds - U.S. Special Revenues</b>						2,597,263	2,597,263	2,645,284	2,599,452	0	(2,583)	0	(2,583)	0	2,596,867	0	396	396	68,953	<b>XXX</b>	<b>XXX</b>	
..02665U-AA-3	AMERICAN HOMES 4 RENT-SERIES 2014-SFR2 C		06/01/2022	PAYOUT		.2,170	.2,171	.2,232	.2,188	0	-(17)	0	-(17)	0	.2,171	0	0	0	0	.34	10/01/2036	1.A FE
..05949T-AX-7	Banc of America Funding-BAFC 2006-1 1A2		05/01/2022	PAYOUT		11,189	11,189	10,943	11,076	0	113	0	113	0	11,189	0	0	0	0	.265	01/01/2036	1.A FM
..12667F-E6-6	Alternative Loan Trust 2-CWALT 2004-J2 3		05/01/2022	PAYOUT		1,560	1,560	1,534	1,551	0	.9	0	.9	0	1,560	0	0	0	0	.31	04/01/2034	1.A FM
..126694-LC-0	CHL Mortgage Pass-Through-CIHL 2005-24 A3		05/01/2022	PAYOUT		5,492	5,611	5,760	3,976	2,076	-(464)	0	1,612	0	5,492	0	0	0	0	.0	11/01/2035	1.D FM
..16165Y-AV-4	ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F		06/01/2022	PAYOUT		.9,840	.9,333	.8,100	.6,236	0	3,174	0	3,174	0	.9,840	0	0	0	0	.165	08/01/2037	1.D FM
.40432B-AZ-2	HSI Asset Loan Obligation-HALO 2007-2 3A6		04/01/2022	PAYOUT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	09/01/2031	1.D FM
.46617F-AA-2	JWI IPT XXVIII LLC-HENDR 2013-1A A		06/15/2022	PAYOUT		6,753	6,753	6,748	6,749	0	4	0	4	0	6,753	0	0	0	0	.91	04/15/2067	1.A FE
.85208N-AD-2	Sprint Spectrum Co LLC -FIRST LIEN		05/31/2022	SINKING PAYMENT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,497	03/20/2025	2. FE
.90783T-AA-8	Union Pacific Railroad C-FIRST LIEN		04/30/2022	SINKING PAYMENT		109,259	109,259	109,259	109,435	0	-(176)	0	-(176)	0	109,259	0	0	0	0	2,952	07/02/2025	1.D FE
<b>1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)</b>						146,263	145,876	144,576	141,211	2,076	2,643	0	4,719	0	146,264	0	0	0	0	5,035	<b>XXX</b>	<b>XXX</b>
<b>2509999997. Total - Bonds - Part 4</b>						2,743,648	2,743,261	2,789,983	2,740,785	2,076	61	0	2,137	0	2,743,253	0	396	396	73,992	<b>XXX</b>	<b>XXX</b>	
<b>2509999998. Total - Bonds - Part 5</b>						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	<b>XXX</b>	<b>XXX</b>	
<b>2509999999. Total - Bonds</b>						2,743,648	2,743,261	2,789,983	2,740,785	2,076	61	0	2,137	0	2,743,253	0	396	396	73,992	<b>XXX</b>	<b>XXX</b>	
<b>4509999997. Total - Preferred Stocks - Part 4</b>						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>XXX</b>	<b>XXX</b>
<b>4509999998. Total - Preferred Stocks - Part 5</b>						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	<b>XXX</b>	<b>XXX</b>	
<b>4509999999. Total - Preferred Stocks</b>						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>XXX</b>	<b>XXX</b>
<b>5989999997. Total - Common Stocks - Part 4</b>						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>XXX</b>	<b>XXX</b>
<b>5989999998. Total - Common Stocks - Part 5</b>						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	<b>XXX</b>	<b>XXX</b>	
<b>5989999999. Total - Common Stocks</b>						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>XXX</b>	<b>XXX</b>
<b>5999999999. Total - Preferred and Common Stocks</b>						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>XXX</b>	<b>XXX</b>
<b>6009999999 - Totals</b>						2,743,648	XXX	2,789,983	2,740,785	2,076	61	0	2,137	0	2,743,253	0	396	396	73,992	<b>XXX</b>	<b>XXX</b>	

Schedule DB - Part A - Section 1 - Options, Caps, Floors, Collars, Swaps and Forwards Open  
**N O N E**

Schedule DB - Part B - Section 1 - Futures Contracts Open  
**N O N E**

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

Schedule DB - Part D - Section 1 - Counterparty Exposure for Derivative Instruments Open  
**N O N E**

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged By  
**N O N E**

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged To  
**N O N E**

Schedule DB - Part E - Derivatives Hedging Variable Annuity Guarantees  
**N O N E**

Schedule DL - Part 1 - Reinvested Collateral Assets Owned  
**N O N E**

Schedule DL - Part 2 - Reinvested Collateral Assets Owned  
**N O N E**

**SCHEDULE E - PART 1 - CASH**

Month End Depository Balances

1 Depository	2 Code	3 Rate of Interest	4 Amount of Interest Received During Current Quarter	5 Amount of Interest Accrued at Current Statement Date	Book Balance at End of Each Month During Current Quarter			9 *
					6 First Month	7 Second Month	8 Third Month	
Bank of New York Mellon .....	New York, NY .....				1,344,369	1,346,455	1,065,521	XXX
PNC Bank .....	Pittsburgh, PA .....				(1,549,511)	(742,867)	(176,455)	XXX
Wells Fargo .....	Winston Salem, NC .....				75,009	76,751	74,581	XXX
0199998. Deposits in ...	depositories that do not exceed the allowable limit in any one depository (See instructions) - Open Depositories	XXX	XXX					XXX
0199999. Totals - Open Depositories		XXX	XXX	0	0	(130,133)	680,339	963,646
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	XXX
0399999. Total Cash on Deposit		XXX	XXX	0	0	(130,133)	680,339	963,646
0499999. Cash in Company's Office		XXX	XXX	XXX	XXX			XXX
0599999. Total - Cash		XXX	XXX	0	0	(130,133)	680,339	963,646

STATEMENT AS OF JUNE 30, 2022 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

Show Investments Owned End of Current Quarter

1 CUSIP	2 Description	3 Code	4 Date Acquired	5 Rate of Interest	6 Maturity Date	7 Book/Adjusted Carrying Value	8 Amount of Interest Due and Accrued	9 Amount Received During Year
0109999999. Total - U.S. Government Bonds						0	0	0
0309999999. Total - All Other Government Bonds						0	0	0
0509999999. Total - U.S. States, Territories and Possessions Bonds						0	0	0
0709999999. Total - U.S. Political Subdivisions Bonds						0	0	0
0909999999. Total - U.S. Special Revenues Bonds						0	0	0
1109999999. Total - Industrial and Miscellaneous (Unaffiliated) Bonds						0	0	0
1309999999. Total - Hybrid Securities						0	0	0
1509999999. Total - Parent, Subsidiaries and Affiliates Bonds						0	0	0
1909999999. Subtotal - Unaffiliated Bank Loans						0	0	0
2419999999. Total - Issuer Obligations						0	0	0
2429999999. Total - Residential Mortgage-Backed Securities						0	0	0
2439999999. Total - Commercial Mortgage-Backed Securities						0	0	0
2449999999. Total - Other Loan-Backed and Structured Securities						0	0	0
2459999999. Total - SVO Identified Funds						0	0	0
2469999999. Total - Affiliated Bank Loans						0	0	0
2479999999. Total - Unaffiliated Bank Loans						0	0	0
2509999999. Total Bonds						0	0	0
09248U-71-8 ..... BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA .....			05/17/2022		1,340	6,225.045	0	0
8209999999. Subtotal - Exempt Money Market Mutual Funds - as Identified by the SVO						6,225.045	0	0
8609999999 - Total Cash Equivalents						6,225.045	0	0