

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 26, 2007

PAGE 1
000 B000000 05/31/2007
000 C000000 0000897419
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 NUVEEN MA PREMIUM INCOME MUNICIPAL FUND
001 B000000 811-07484
001 C000000 3129178200
002 A000000 333 WEST WACKER DRIVE
002 B000000 CHICAGO
002 C000000 IL
002 D010000 60606
002 D020000 1286
003 000000 N
004 000000 N
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
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007 C011000 10
008 A000001 NUVEEN ASSET MANAGEMENT
008 B000001 A
008 C000001 801-14147
008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
008 D040001 1286
012 A000001 EQUISERVE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60606
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
PAGE 2
015 A000001 STATE STREET BANK AND TRUST COMPANY
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02110
015 E010001 X

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018 000000 Y
 019 A000000 Y
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 022 B000001 13-3604093
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 022 A000003 MORGAN STANLEY
 022 B000003 13-2655998
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 022 B000004 63-0908075
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 022 A000006 CITIGROUP
 022 B000006 13-3214963
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 022 A000007 MCDONALD & CO
 022 B000007 34-0642435
 022 C000007 0
 022 D000007 1118
 022 A000008 HERBERT J. SIMS & CO
 022 B000008 13-5213180
 PAGE 3
 022 C000008 671
 022 D000008 0
 022 A000009 MERRILL LYNCH
 022 B000009 13-5674085
 022 C000009 599
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 022 A000010 GEORGE K. BAUM & CO.
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 022 D000010 572
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 024 000000 N
 025 D000001 0
 025 D000002 0
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| | PAGE 4 | |
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042 H000000 0
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 046 000000 N
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 048 G010000 0
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 048 H010000 0
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 PAGE 5
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 048 K010000 0
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 059 000000 Y
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 060 B000000 Y
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062 D000000 0.0
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062 F000000 0.0
062 G000000 0.0
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062 K000000 0.0
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062 Q000000 0.0
062 R000000 0.0

PAGE 6

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064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
069 000000 N
070 A010000 Y
070 A020000 N
070 B010000 N
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070 O010000 Y
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070 Q020000 N
070 R010000 N
070 R020000 N
071 A000000

9065

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071 B000000 10687
 071 C000000 102620
 071 D000000 9
 072 A000000 12
 072 B000000 5042

PAGE 7

072 C000000 0
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 072 F000000 660
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 072 I000000 17
 072 J000000 25
 072 K000000 5
 072 L000000 13
 072 M000000 3
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 072 Q000000 0
 072 R000000 12
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 072 U000000 0
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 072BB000000 14
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 074 M000000 7
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 074 O000000 1571
 074 P000000 56

PAGE 8

074 Q000000 0
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 074 R020000 0
 074 R030000 0

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| 074 | R040000 | 84 |
| 074 | S000000 | 34000 |
| 074 | T000000 | 69323 |
| 074 | U010000 | 4762 |
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| 074 | V020000 | 0.00 |
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| 074 | Y000000 | 1335 |
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| 076 | 000000 | 14.33 |
| 077 | A000000 | Y |
| 077 | B000000 | Y |
| 078 | 000000 | N |
| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | AIG, GREAT AMERICAN, CNA & ST. PAUL |
| 080 | C000000 | 100000 |
| 081 | A000000 | Y |
| 081 | B000000 | 175 |
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| 084 | B000000 | 0 |
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| 085 | B000000 | N |
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| 086 | B010000 | 2 |
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| 086 | C020000 | 0 |
| 086 | D010000 | 0 |
| 086 | D020000 | 0 |
| 086 | E010000 | 0 |
| 086 | E020000 | 0 |
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| 087 | A010000 | COMMON STOCK |
| 087 | A020000 | 67061E104 |
| 087 | A030000 | NMT |
| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| | PAGE | 9 |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |