

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2008

PAGE 1
000 A000000 11/30/2007
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
007 C010900 9
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
 019 B000000 184
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 020 C000001 0
 020 C000002 0
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 022 B000001 13-2655998
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 022 A000002 MERRILL LYNCH
 022 B000002 13-5674085
 022 C000002 1631
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 022 A000003 JP MORGAN CHASE
 022 B000003 13-3224016
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 022 A000004 FIDELITY CAPITAL MARKETS
 022 B000004 04-2785576
 022 C000004 0
 022 D000004 1850
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 022 A000006 LEHMAN BROTHERS, INC
 022 B000006 13-2518466
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 022 A000007 STONE & YOUNGBERG
 022 B000007 94-1052545
 022 C000007 0
 022 D000007 986
 022 A000008 CITIGROUP
 022 B000008 13-3214963
 PAGE 3
 022 C000008 812
 022 D000008 0
 022 A000009 BB&T CAPITAL MARKETS
 022 B000009 54-0294670
 022 C000009 302
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 022 C000010 0
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 023 C000000 8383
 023 D000000 6739
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 025 D000001 0
 025 D000002 0
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 025 D000004 0
 025 D000005 0

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| | | |
|-----|---------|------|
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| 026 | E000000 | N |
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| 026 | G020000 | N |
| 026 | H000000 | N |
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| 028 | B030000 | 0 |
| 028 | B040000 | 0 |
| 028 | C010000 | 0 |
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| 028 | C030000 | 0 |
| 028 | C040000 | 0 |
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| 028 | E020000 | 0 |
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| 028 | E040000 | 0 |
| 028 | F010000 | 0 |
| 028 | F020000 | 0 |
| | PAGE 4 | |
| 028 | F030000 | 0 |
| 028 | F040000 | 0 |
| 028 | G010000 | 0 |
| 028 | G020000 | 0 |
| 028 | G030000 | 0 |
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| 033 | 000000 | 0 |
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| 042 | B000000 | 0 |
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| 042 | E000000 | 0 |
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| 043 | 000000 | 0 |

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| | | |
|-----|---------|-------|
| 044 | 000000 | 0 |
| 045 | 000000 | Y |
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| 048 | B020000 | 0.000 |
| 048 | C010000 | 0 |
| 048 | C020000 | 0.000 |
| 048 | D010000 | 0 |
| 048 | D020000 | 0.000 |
| 048 | E010000 | 0 |
| 048 | E020000 | 0.000 |
| 048 | F010000 | 0 |
| 048 | F020000 | 0.000 |
| 048 | G010000 | 0 |
| 048 | G020000 | 0.000 |
| 048 | H010000 | 0 |
| 048 | H020000 | 0.000 |
| 048 | I010000 | 0 |
| 048 | I020000 | 0.000 |
| 048 | J010000 | 0 |
| 048 | J020000 | 0.000 |
| | PAGE | 5 |
| 048 | K010000 | 0 |
| 048 | K020000 | 0.000 |
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| 050 | 000000 | N |
| 051 | 000000 | N |
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| 054 | A000000 | Y |
| 054 | B000000 | N |
| 054 | C000000 | N |
| 054 | D000000 | N |
| 054 | E000000 | N |
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| 054 | I000000 | N |
| 054 | J000000 | Y |
| 054 | K000000 | N |
| 054 | L000000 | N |
| 054 | M000000 | Y |
| 054 | N000000 | N |
| 054 | O000000 | Y |
| 055 | A000000 | Y |
| 055 | B000000 | N |
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| 062 | C000000 | 0.0 |
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| 062 | E000000 | 0.7 |

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062 F000000 0.0
062 G000000 0.0
062 H000000 0.0
062 I000000 0.0
062 J000000 0.0
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062 M000000 0.0
062 N000000 0.0
062 O000000 144.9
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062 Q000000 0.0
062 R000000 0.0
063 A000000 0
063 B000000 9.1

PAGE 6

064 A000000 Y
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 F020000 N
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070 P010000 N
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070 Q020000 N
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070 R020000 N
071 A000000 8383
071 B000000 7714
071 C000000 101343

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| | |
|-------------|--------|
| 071 D000000 | 8 |
| 072 A000000 | 6 |
| 072 B000000 | 2512 |
| 072 C000000 | 0 |
| 072 D000000 | 0 |
| PAGE 7 | |
| 072 E000000 | 0 |
| 072 F000000 | 324 |
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| 072 H000000 | 0 |
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| 072 K000000 | 4 |
| 072 L000000 | 8 |
| 072 M000000 | 1 |
| 072 N000000 | 0 |
| 072 O000000 | 0 |
| 072 P000000 | 0 |
| 072 Q000000 | 0 |
| 072 R000000 | 5 |
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| 072 T000000 | 0 |
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| 072CC020000 | 214 |
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| 072DD020000 | 0 |
| 072EE000000 | 0 |
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| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
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| 074 B000000 | 0 |
| 074 C000000 | 500 |
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| 074 H000000 | 0 |
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| 074 O000000 | 0 |
| 074 P000000 | 53 |
| 074 Q000000 | 0 |
| 074 R010000 | 0 |
| PAGE 8 | |
| 074 R020000 | 0 |
| 074 R030000 | 0 |
| 074 R040000 | 236 |
| 074 S000000 | 34000 |

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| | | |
|-----------|-------------------|--------------|
| 074 | T000000 | 69255 |
| 074 | U010000 | 4763 |
| 074 | U020000 | 0 |
| 074 | V010000 | 14.54 |
| 074 | V020000 | 0.00 |
| 074 | W000000 | 0.0000 |
| 074 | X000000 | 235 |
| 074 | Y000000 | 5856 |
| 075 | A000000 | 0 |
| 075 | B000000 | 68406 |
| 076 | 000000 | 13.11 |
| 077 | A000000 | Y |
| 077 | C000000 | Y |
| 077 | Q010000 | Y |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | B000000 | 0 |
| 082 | B000000 | 0 |
| 083 | B000000 | 0 |
| 084 | B000000 | 0 |
| 086 | A010000 | 0 |
| 086 | A020000 | 0 |
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| 086 | C020000 | 0 |
| 086 | D010000 | 0 |
| 086 | D020000 | 0 |
| 086 | E010000 | 0 |
| 086 | E020000 | 0 |
| 086 | F010000 | 0 |
| 086 | F020000 | 0 |
| 087 | A010000 | COMMON STOCK |
| 087 | A020000 | 67061E104 |
| 087 | A030000 | NMT |
| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |