

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 28, 2009

PAGE 1
000 B000000 05/31/2009
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
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| 048 | C010000 | | 0 |
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| | | | |
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| 054 | C000000 | N | |
| 054 | D000000 | N | |
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| 054 | L000000 | N | |
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| 062 | Q000000 | | 0.0 |

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| 070 | B010000 | N |
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| | PAGE | 6 |
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| 070 | M010000 | N |
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| 070 | N010000 | N |
| 070 | N020000 | N |
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| 072 | K000000 | 9 |

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072 L000000 19
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 072 P000000 57

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075 A000000 0
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 076 000000 13.28
 077 A000000 Y

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077 B000000 Y
077 C000000 Y
078 000000 N
080 A000000 CHUBB GROUP OF INSURANCE COMPANIES
080 B000000 AIG, GREAT AMERICAN, ST. PAUL & CNA
080 C000000 110000
081 A000000 Y
081 B000000 198
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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