

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2007

PAGE 1
000 A000000 11/30/2006
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
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007 C010600 6
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008 B000001 A
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008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
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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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| | PAGE | 5 | |
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| 062 | P000000 | | 0.0 |
| 062 | Q000000 | | 0.0 |

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| 070 | B010000 | N |
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| | PAGE | 6 |
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072 L000000 6
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 072 P000000 0

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| 088 | D000000 | Y | |
| SIGNATURE | STEPHEN D. FOY | | |
| TITLE | V.P. & CONTROLLER | | |