

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2016

PAGE 1
000 A000000 11/30/2015
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
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006 000000 N
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007 C010100 1
008 A000001 NUVEEN FUND ADVISORS, LLC
008 B000001 A
008 C000001 801-14147
008 D010001 CHICAGO
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008 D030001 60606
008 D040001 1286
008 A000002 NUVEEN ASSET MANAGEMENT, LLC.
008 B000002 S
008 C000002 801-71957
008 D010002 CHICAGO
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012 A000001 COMPUTERSHARE INC.
012 B000001 84-05925
012 C010001 PROVIDENCE
012 C020001 RI
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013 A000001 KPMG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60601
014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
015 A000001 STATE STREET BANK AND TRUST COMPANY
015 B000001 C
PAGE 2
015 C010001 BOSTON
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015 C030001 02110
015 E010001 X
018 000000 Y
019 A000000 Y

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 066 A000000 N
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| 070 | H020000 | N | |
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| 070 | I020000 | N | |
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| 070 | M010000 | N | |
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072 U000000 0
 072 V000000 0
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084 B000000 0
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| 086 | F010000 | 0 |
| 086 | F020000 | 0 |
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| 087 | A030000 | NMT |
| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |