

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 30, 2014

PAGE 1
000 B000000 05/31/2014
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
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002 A000000 333 WEST WACKER DRIVE
002 B000000 CHICAGO
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008 A000001 NUVEEN FUND ADVISORS, LLC
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008 A000002 NUVEEN ASSET MANAGEMENT, LLC.
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012 A000001 COMPUTERSHARE INC.
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013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
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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
015 C020001 MA
015 C030001 02110
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019 A000000 Y

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019 B000000 201
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PAGE 3

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 072 V000000 0

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077 A000000 Y
 077 B000000 Y
 077 C000000 Y

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077 D000000 Y
 078 000000 N

080 A000000 CHUBB GROUP OF INSURANCE COMPANIES
 080 B000000 BERKLEY, GREAT AMERICAN, ST.PAUL,CNA & ZURICH

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| 086 | B020000 | | 0 |
| 086 | C010000 | | 0 |
| 086 | C020000 | | 0 |
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| 086 | D020000 | | 0 |
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| 088 | A000000 | N | |
| 088 | B000000 | N | |
| 088 | C000000 | N | |
| 088 | D000000 | Y | |
| SIGNATURE | STEPHEN D. FOY | | |
| TITLE | V.P. & CONTROLLER | | |