

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 29, 2014

PAGE 1
000 A000000 11/30/2013
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000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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002 A000000 333 WEST WACKER DRIVE
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012 A000001 COMPUTERSHARE INC.
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013 A000001 ERNST & YOUNG LLP
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014 A000001 NUVEEN INVESTMENTS, LLC
014 B000001 8-13464
015 A000001 STATE STREET BANK AND TRUST COMPANY
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PAGE 2
015 C010001 BOSTON
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072 Q000000 0
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| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |