

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 26, 2005

PAGE 1
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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 D020000 1286
003 000000 N
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012 C010001 BOSTON
PAGE 2
012 C020001 MA
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL
013 B030001 60606

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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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015 C010001 BOSTON
015 C020001 MA
015 C030001 02206
015 E010001 X
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PAGE 3
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PAGE 6

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| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |

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SIGNATURE STEPHEN D. FOY
TITLE V.P. & CONTROLLER