

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 26, 2007

PAGE 1
000 B000000 05/31/2007
000 C000000 0000897419
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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002 B000000 CHICAGO
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008 A000001 NUVEEN ASSET MANAGEMENT
008 B000001 A
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008 D010001 CHICAGO
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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
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 022 B000008 13-5213180
 PAGE 3
 022 C000008 671
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 022 A000009 MERRILL LYNCH
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062 D000000 0.0
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9065

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074 T000000	69323
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087 A020000	67061E104
087 A030000	NMT
088 A000000	N
088 B000000	N
088 C000000	N
	PAGE 9
088 D000000	Y
SIGNATURE	STEPHEN D. FOY
TITLE	V.P. & CONTROLLER