

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
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
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008 B000001 A
008 C000001 801-14147
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
015 C030001 02110
015 E010001 X

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018 000000 Y
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 PAGE 3
 022 C000008 671
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 022 A000010 GEORGE K. BAUM & CO.
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062 D000000 0.0
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9065

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071 B000000 10687
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 072 A000000 12
 072 B000000 5042

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074 Q000000 0
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074 R040000	84
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074 U010000	4762
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075 B000000	69990
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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