

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 29, 2008

PAGE 1  
000 B000000 05/31/2008  
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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001 B000000 811-07484  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
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007 C010600 6  
007 C010700 7  
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007 C010900 9  
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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  
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013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
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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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070 Q010000 N  
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070 R020000 N  
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071 B000000 13978  
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 071 D000000 14  
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PAGE 8

074 Q000000 0  
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080	B000000	AIG, GREAT AMERICAN, ST. PAUL & CNA
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087	A020000	67061E104
087	A030000	NMT
088	A000000	N
	PAGE	9
088	B000000	N
088	C000000	N
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	