

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-B

July 30, 2003

PAGE 1  
000 B000000 05/31/2003  
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 MASSACHUSETTS PREMIUM INCOME MUNI FUND  
001 B000000 811-7484  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
002 D020000 1286  
003 000000 N  
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005 000000 N  
006 000000 N  
007 A000000 N  
007 B000000 0  
007 C010100 1  
007 C010200 2  
007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 NUVEEN ADVISORY CORP  
008 B000001 A  
008 C000001 801-12353  
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012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
012 C010001 BOSTON  
PAGE 2  
012 C020001 MA  
012 C030001 02940  
013 A000001 ERNST & YOUNG  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60611

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014 A000001 NUVEEN INVESTMENTS, LLC  
014 B000001 8-13464  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02206  
015 E010001 X  
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020 C000010 0  
021 000000 0  
022 A000001 CITIGROUP  
022 B000001 13-3214963  
022 C000001 5900  
022 D000001 1203  
022 A000002 CORBY NORTH BRIDGE  
022 B000002 52-1037969  
022 C000002 2191  
022 D000002 0  
022 A000003 DAIN RAUSCHER  
022 B000003 41-0212020  
022 C000003 1480  
022 D000003 496  
022 A000004 LEHMAN BROTHERS  
022 B000004 13-2518466  
022 C000004 1914  
022 D000004 0  
022 A000005 MORGAN STANLEY DEAN WITTER  
022 B000005 13-2655998  
022 C000005 1623  
PAGE 3  
022 D000005 0  
022 A000006 ISAAK BOND  
022 B000006 84-0728399  
022 C000006 1473  
022 D000006 0  
022 A000007 EASTERN BANK  
022 B000007 04-3067724  
022 C000007 1012  
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022 A000008 JPMORGAN  
022 B000008 13-3224016  
022 C000008 1006  
022 D000008 0  
022 A000009 MERCHANT CAPITAL  
022 B000009 63-0908075  
022 C000009 1000

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022	D000009	0
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022	B000010	06-0501867
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048	D010000	500000
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054	D000000	N
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054	G000000	N
054	H000000	Y
054	I000000	N
054	J000000	Y
054	K000000	N
054	L000000	N
054	M000000	Y
054	N000000	N
054	O000000	Y
055	A000000	Y

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055 B000000 N  
 056 000000 N  
 057 000000 N  
 058 A000000 N  
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 070 B010000 N  
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 070 L010000 N  
 070 L020000 N  
 070 M010000 N  
 070 M020000 N

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070	N010000	N	
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070	P020000	N	
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070	Q020000	N	
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070	R020000	N	
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072EE	0000000		0
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074	J000000	10
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074	M000000	7
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074	V020000	0.00
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074	Y000000	13072
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077	B000000	Y
077	Q010000	Y
078	000000	N
080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	AIG, CNA, GULF
080	C000000	84000
081	A000000	Y
081	B000000	140
082	A000000	N
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083	B000000	0
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086	C020000	0
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086	D010000	0
086	D020000	0
086	E010000	0
086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	67061E104
087	A030000	NMT
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	

TITLE V.P. & CONTROLLER