

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
004 000000 N
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
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008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
008 D040001 1286
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011 A000007 DELETE
011 A000008 DELETE
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
015 A000003 DELETE
015 A000004 DELETE
015 A000007 DELETE
018 000000 Y
019 A000000 Y
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020 C000006 0
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020 C000009 0
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
022 D000007 0
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
022	A000010	ADVEST, INC.
022	B000010	06-0501867
022	C000010	965
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023	C000000	19185
023	D000000	17961
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033	000000	0
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046	000000	N
047	000000	Y
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048	B020000	0.638
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048	D020000	0.613
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054	C000000	N
054	D000000	N
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054	F000000	N
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
 059 000000 Y
 060 A000000 Y
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 061 000000 0
 062 A000000 Y
 062 B000000 0.0
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 PAGE 6
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 062 Q000000 0.0
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 063 B000000 7.4
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 069 000000 N
 070 A010000 Y
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 070 C010000 Y
 070 C020000 N
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 070 D020000 N
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 070 H010000 N
 070 H020000 N
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 070 I020000 N
 070 J010000 Y
 070 J020000 N
 070 K010000 N
 070 K020000 N
 070 L010000 N
 070 L020000 N
 070 M010000 N
 070 M020000 N

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070	N010000	N	
070	N020000	N	
070	O010000	Y	
070	O020000	N	
070	P010000	N	
	PAGE	7	
070	P020000	N	
070	Q010000	N	
070	Q020000	N	
070	R010000	N	
070	R020000	N	
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072	Z000000		4619
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072BB	000000		17
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072EE	000000		0
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074	D000000		104906
074	E000000		0
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074	H000000		0
074	I000000		0

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074	J000000	10
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074	L000000	1438
074	M000000	7
074	N000000	106361
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074	R030000	0
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074	T000000	72003
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074	U020000	0
074	V010000	15.30
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074	W000000	0.0000
074	X000000	326
074	Y000000	13072
075	A000000	0
075	B000000	69727
076	000000	16.80
077	A000000	Y
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
082	B000000	0
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083	B000000	0
084	A000000	N
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085	A000000	Y
085	B000000	N
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086	A020000	318
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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