

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
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 ASSET MANAGEMENT
008 B000001 A
008 C000001 801-14147
008 D010001 CHICAGO
008 D020001 IL
008 D030001 60606
008 D040001 1286
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

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

018 000000 Y
 019 A000000 Y
 019 B000000 176
 019 C000000 NUVEENFUND
 020 C000001 0
 020 C000002 0
 020 C000003 0
 020 C000004 0
 020 C000005 0
 020 C000006 0
 020 C000007 0
 020 C000008 0
 020 C000009 0
 020 C000010 0
 021 000000 0
 022 A000001 BEAR STEARNS
 022 B000001 13-3604093
 022 C000001 2039
 022 D000001 2150
 022 A000002 UBS
 022 B000002 13-2638166
 022 C000002 1500
 022 D000002 0
 022 A000003 MORGAN STANLEY
 022 B000003 13-2655998
 022 C000003 1488
 022 D000003 0
 022 A000004 MERCHANT CAPITAL
 022 B000004 63-0908075
 022 C000004 1335
 022 D000004 0
 022 A000005 FIDELITY CAPITAL MKT
 022 B000005 04-2785576
 022 C000005 0
 022 D000005 1318
 022 A000006 CITIGROUP
 022 B000006 13-3214963
 022 C000006 1158
 022 D000006 0
 022 A000007 MCDONALD & CO
 022 B000007 34-0642435
 022 C000007 0
 022 D000007 1118
 022 A000008 HERBERT J. SIMS & CO
 022 B000008 13-5213180
 PAGE 3
 022 C000008 671
 022 D000008 0
 022 A000009 MERRILL LYNCH
 022 B000009 13-5674085
 022 C000009 599
 022 D000009 0
 022 A000010 GEORGE K. BAUM & CO.
 022 B000010 44-0522232
 022 C000010 0
 022 D000010 572
 023 C000000 9065
 023 D000000 5158
 024 000000 N
 025 D000001 0
 025 D000002 0
 025 D000003 0

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

025	D000004	0
025	D000005	0
025	D000006	0
025	D000007	0
025	D000008	0
026	A000000	N
026	B000000	N
026	C000000	N
026	D000000	Y
026	E000000	N
026	F000000	N
026	G010000	N
026	G020000	N
026	H000000	N
027	000000	N
028	A010000	0
028	A020000	0
028	A030000	0
028	A040000	0
028	B010000	0
028	B020000	0
028	B030000	0
028	B040000	0
028	C010000	0
028	C020000	0
028	C030000	0
028	C040000	0
028	D010000	0
028	D020000	0
028	D030000	0
028	D040000	0
028	E010000	0
028	E020000	0
028	E030000	0
028	E040000	0
	PAGE 4	
028	F010000	0
028	F020000	0
028	F030000	0
028	F040000	0
028	G010000	0
028	G020000	0
028	G030000	0
028	G040000	0
028	H000000	0
030	A000000	0
030	B000000	0.00
030	C000000	0.00
031	A000000	0
031	B000000	0
032	000000	0
033	000000	0
035	000000	0
036	B000000	0
038	000000	0
042	A000000	0
042	B000000	0
042	C000000	0
042	D000000	0
042	E000000	0
042	F000000	0
042	G000000	0

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

042 H000000 0
043 000000 0
044 000000 0
045 000000 Y
046 000000 N
047 000000 N
048 000000 0.000
048 A010000 0
048 A020000 0.000
048 B010000 0
048 B020000 0.000
048 C010000 0
048 C020000 0.000
048 D010000 0
048 D020000 0.000
048 E010000 0
048 E020000 0.000
048 F010000 0
048 F020000 0.000
048 G010000 0
048 G020000 0.000
048 H010000 0
048 H020000 0.000
048 I010000 0
048 I020000 0.000
PAGE 5
048 J010000 0
048 J020000 0.000
048 K010000 0
048 K020000 0.000
049 000000 N
050 000000 N
051 000000 N
052 000000 Y
053 A000000 N
054 A000000 Y
054 B000000 N
054 C000000 N
054 D000000 N
054 E000000 N
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
055 B000000 N
056 000000 Y
057 000000 N
058 A000000 N
059 000000 Y
060 A000000 Y
060 B000000 Y
061 000000 0
062 A000000 Y
062 B000000 0.0
062 C000000 0.0

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

062 D000000 0.0
062 E000000 4.3
062 F000000 0.0
062 G000000 0.0
062 H000000 0.0
062 I000000 0.0
062 J000000 0.0
062 K000000 0.0
062 L000000 0.0
062 M000000 0.0
062 N000000 0.0
062 O000000 144.4
062 P000000 0.0
062 Q000000 0.0
062 R000000 0.0

PAGE 6

063 A000000 0
063 B000000 8.0
064 A000000 Y
064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
069 000000 N
070 A010000 Y
070 A020000 N
070 B010000 N
070 B020000 N
070 C010000 Y
070 C020000 N
070 D010000 N
070 D020000 N
070 E010000 Y
070 E020000 N
070 F010000 N
070 F020000 N
070 G010000 Y
070 G020000 N
070 H010000 N
070 H020000 N
070 I010000 N
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
070 N010000 N
070 N020000 N
070 O010000 Y
070 O020000 Y
070 P010000 N
070 P020000 N
070 Q010000 N
070 Q020000 N
070 R010000 N
070 R020000 N
071 A000000

9065

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

071 B000000	10687
071 C000000	102620
071 D000000	9
072 A000000	12
072 B000000	5042
PAGE 7	
072 C000000	0
072 D000000	0
072 E000000	0
072 F000000	660
072 G000000	0
072 H000000	0
072 I000000	17
072 J000000	25
072 K000000	5
072 L000000	13
072 M000000	3
072 N000000	0
072 O000000	0
072 P000000	0
072 Q000000	0
072 R000000	12
072 S000000	2
072 T000000	0
072 U000000	0
072 V000000	0
072 W000000	123
072 X000000	860
072 Y000000	0
072 Z000000	4182
072AA000000	0
072BB000000	14
072CC010000	675
072CC020000	0
072DD010000	3184
072DD020000	0
072EE000000	24
073 A010000	0.6687
073 A020000	0.0000
073 B000000	0.0049
073 C000000	0.0000
074 A000000	311
074 B000000	0
074 C000000	2950
074 D000000	100120
074 E000000	0
074 F000000	0
074 G000000	0
074 H000000	0
074 I000000	0
074 J000000	90
074 K000000	0
074 L000000	1556
074 M000000	7
074 N000000	105034
074 O000000	1571
074 P000000	56
PAGE 8	
074 Q000000	0
074 R010000	0
074 R020000	0
074 R030000	0

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form NSAR-B

074	R040000	84
074	S000000	34000
074	T000000	69323
074	U010000	4762
074	U020000	0
074	V010000	14.56
074	V020000	0.00
074	W000000	0.0000
074	X000000	248
074	Y000000	1335
075	A000000	0
075	B000000	69990
076	000000	14.33
077	A000000	Y
077	B000000	Y
078	000000	N
080	A000000	CHUBB GROUP OF INSURANCE COMPANIES
080	B000000	AIG, GREAT AMERICAN, CNA & ST. PAUL
080	C000000	100000
081	A000000	Y
081	B000000	175
082	A000000	N
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	Y
085	B000000	N
086	A010000	0
086	A020000	0
086	B010000	2
086	B020000	34
086	C010000	0
086	C020000	0
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
	PAGE	9
088	D000000	Y
SIGNATURE	STEPHEN D. FOY	
TITLE	V.P. & CONTROLLER	