

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	