

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 28, 2004

PAGE 1
000 A000000 11/30/2003
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
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001 C000000 3129178200
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007 C010600 6
007 C010700 7
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012 B000001 84-05925
012 C010001 BOSTON
PAGE 2
012 C020001 MA
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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
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022 A000001 ADVEST, INC.
022 B000001 06-0501867
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022 A000002 CITIGROUP
022 B000002 13-3214963
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022 A000003 A.G. EDWARDS
022 B000003 43-0895447
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022 A000004 MERRILL LYNCH
022 B000004 13-5674085
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PAGE 3
022 D000005 3105
022 A000006 RAYMOND JAMES
022 B000006 59-1237041
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022 A000007 ABN AMRO
022 B000007 13-3227945
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022 A000008 LEHMAN BROTHERS
022 B000008 13-2518466
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022 D000008 0
022 A000009 MORGAN STANLEY DEAN WITTER
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054	I000000	N
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054	L000000	N
054	M000000	Y
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054	O000000	Y
055	A000000	Y

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055 B000000 N
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070	N010000	N	
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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