

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 26, 2005

PAGE 1  
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000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
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000 J000000 A  
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002 A000000 333 WEST WACKER DRIVE  
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PAGE 2  
012 C020001 MA  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60606

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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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059 000000 Y  
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070	P010000	N	
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087	A020000	67061E104
087	A030000	NMT
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y

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SIGNATURE STEPHEN D. FOY  
TITLE V.P. & CONTROLLER