

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND

Form NSAR-A

January 27, 2006

PAGE 1
000 A000000 11/30/2005
000 C000000 0000899782
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 MISSOURI PREMIUM INCOME MUNICIPAL FUND
001 B000000 811-07616
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
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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
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012 A000001 EQUISERVE INC.
012 B000001 84-05925
PAGE 2
012 C010001 PROVIDENCE
012 C020001 RI
012 C030001 02940
013 A000001 ERNST & YOUNG LLP
013 B010001 CHICAGO
013 B020001 IL

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013 B030001 60606
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 02110
015 E010001 X
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021 000000 0
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022 C000001 363
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022 A000002 COMMERCE BANK OF KANSAS CITY
022 B000002 44-0206815
022 C000002 0
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022 A000003 W.H. MELL
022 B000003 22-3023019
022 C000003 0
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PAGE 3
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022 D000010 0
023 C000000 1777
023 D000000 2113
024 000000 N
025 D000001 0
025 D000002 0

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042 G000000 0
042 H000000 0
043 000000 0
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045 000000 Y
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PAGE 5
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049 000000 N
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055 B000000 N
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060 A000000 Y
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062 B000000 0.0

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062 Q000000 0.0

PAGE 6

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064 B000000 N
066 A000000 N
067 000000 N
068 A000000 N
068 B000000 N
069 000000 N
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070 O020000 Y
070 P010000 N
070 P020000 N
070 Q010000 N
070 Q020000 N
070 R010000 N
070 R020000 N

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071 A000000 1777
 071 B000000 2113
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 071 D000000 4
 072 A000000 6

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 074 L000000 815
 074 M000000 9
 074 N000000 49409
 074 O000000 0

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074 P000000 26
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 074 R010000 0
 074 R020000 0

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| 074 | R040000 | 23 |
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| 086 | D010000 | 0 |
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| 086 | E020000 | 0 |
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| 086 | F020000 | 0 |
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| 087 | A030000 | NOM |
| 088 | A000000 | N |
| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | STEPHEN D. FOY | |
| TITLE | V.P. & CONTROLLER | |