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NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND

Form NSAR-B

December 31, 2007

PAGE 1  
000 B000000 10/31/2007  
000 C000000 0001266585  
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 MUNICIPAL HIGH INCOME OPPORTUNITY FUND  
001 B000000 811-21449  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
002 D020000 1286  
003 000000 N  
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005 000000 N  
006 000000 N  
007 A000000 N  
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007 C010100 1  
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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

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018 000000 Y  
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019 B000000 182  
019 C000000 NUVEENFUND  
020 C000001 0  
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022 B000001 56-2058405  
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022 A000002 MORGAN STANLEY  
022 B000002 13-2655998  
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022 B000003 13-3604093  
022 C000003 18268  
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022 C000004 10025  
022 D000004 5234  
022 A000005 FIRST ALBANY CORP  
022 B000005 14-1391446  
022 C000005 0  
022 D000005 10684  
022 A000006 PRAGER, MCCARTHY  
022 B000006 94-3057440  
022 C000006 9340  
022 D000006 498  
022 A000007 RYAN, BECK & CO  
022 B000007 22-1773796  
022 C000007 0  
022 D000007 8366  
022 A000008 GMS GROUP LLC  
022 B000008 13-2982938  
PAGE 3  
022 C000008 4408  
022 D000008 2564  
022 A000009 PIPER JAFFRAY  
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022 C000009 3965  
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022 A000010 RBC DOMINION  
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022 C000010 2000  
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023 D000000 93260  
024 000000 N  
025 D000001 0  
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| 025 | D000007 | 0    |
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| 026 | D000000 | Y    |
| 026 | E000000 | N    |
| 026 | F000000 | N    |
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| 026 | G020000 | N    |
| 026 | H000000 | N    |
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| 028 | A030000 | 0    |
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| 028 | B010000 | 0    |
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| 028 | B040000 | 0    |
| 028 | C010000 | 0    |
| 028 | C020000 | 0    |
| 028 | C030000 | 0    |
| 028 | C040000 | 0    |
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| 028 | D040000 | 0    |
| 028 | E010000 | 0    |
| 028 | E020000 | 0    |
| 028 | E030000 | 0    |
| 028 | E040000 | 0    |
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| 028 | F020000 | 0    |
| 028 | F030000 | 0    |
| 028 | F040000 | 0    |
| 028 | G010000 | 0    |
| 028 | G020000 | 0    |
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| 030 | C000000 | 0.00 |
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| 035 | 000000  | 0    |
| 036 | B000000 | 0    |
| 038 | 000000  | 0    |
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| 042 | C000000 | 0    |
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| 042 | E000000 | 0    |
| 042 | F000000 | 0    |
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042 H000000 0  
043 000000 0  
044 000000 0  
045 000000 Y  
046 000000 N  
047 000000 N  
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048 A010000 0  
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048 B010000 0  
048 B020000 0.000  
048 C010000 0  
048 C020000 0.000  
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048 D020000 0.000  
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048 H020000 0.000  
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048 K020000 0.000  
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052 000000 Y  
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054 D000000 N  
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054 G000000 N  
054 H000000 Y  
054 I000000 N  
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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

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062 B000000 0.0  
062 C000000 0.0  
062 D000000 0.0  
062 E000000 0.0  
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062 P000000 0.0

PAGE 6

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062 R000000 0.0  
063 A000000 0  
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064 A000000 Y  
064 B000000 Y  
065 000000 N  
066 A000000 N  
067 000000 N  
068 A000000 N  
068 B000000 N  
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070 N020000 N  
070 O010000 Y  
070 O020000 Y  
070 P010000 N  
070 P020000 N  
070 Q010000 N  
070 Q020000 N

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070 R010000 N  
 070 R020000 N  
 071 A000000 112573  
 071 B000000 64618  
 071 C000000 541806

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071 D000000 12  
 072 A000000 12  
 072 B000000 32517  
 072 C000000 0  
 072 D000000 0  
 072 E000000 0  
 072 F000000 3755  
 072 G000000 0  
 072 H000000 0  
 072 I000000 31  
 072 J000000 221  
 072 K000000 20  
 072 L000000 40  
 072 M000000 12  
 072 N000000 0  
 072 O000000 0  
 072 P000000 807  
 072 Q000000 0  
 072 R000000 22  
 072 S000000 159  
 072 T000000 0  
 072 U000000 0  
 072 V000000 0  
 072 W000000 457  
 072 X000000 5524  
 072 Y000000 1676  
 072 Z000000 28669  
 072AA000000 2666  
 072BB000000 0  
 072CC010000 0  
 072CC020000 17904  
 072DD010000 22823  
 072DD020000 0  
 072EE000000 105

073 A010000 0.9782  
 073 A020000 0.0000  
 073 B000000 0.0045  
 073 C000000 0.0000  
 074 A000000 0  
 074 B000000 0  
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 074 D000000 554163  
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 074 G000000 0  
 074 H000000 0  
 074 I000000 0  
 074 J000000 2734  
 074 K000000 0  
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 074 M000000 191

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074 N000000 566787  
 074 O000000 6093  
 074 P000000 174  
 074 Q000000 0

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|-----|---------|------------------------------------|
| 074 | R010000 | 0                                  |
| 074 | R020000 | 0                                  |
| 074 | R030000 | 0                                  |
| 074 | R040000 | 44036                              |
| 074 | S000000 | 155000                             |
| 074 | T000000 | 361484                             |
| 074 | U010000 | 23541                              |
| 074 | U020000 | 0                                  |
| 074 | V010000 | 15.36                              |
| 074 | V020000 | 0.00                               |
| 074 | W000000 | 0.0000                             |
| 074 | X000000 | 84                                 |
| 074 | Y000000 | 40148                              |
| 075 | A000000 | 0                                  |
| 075 | B000000 | 368802                             |
| 076 | 000000  | 15.82                              |
| 077 | A000000 | Y                                  |
| 077 | B000000 | Y                                  |
| 077 | C000000 | Y                                  |
| 077 | I000000 | Y                                  |
| 077 | Q010000 | Y                                  |
| 078 | 000000  | N                                  |
| 080 | A000000 | CHUBB GROUP OF INSURANCE COMPANIES |
| 080 | B000000 | AIG, GREAT AMERICAN, ST.PAUL & CNA |
| 080 | C000000 | 110000                             |
| 081 | A000000 | Y                                  |
| 081 | B000000 | 181                                |
| 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 | 197                                |
| 086 | A020000 | 3071                               |
| 086 | B010000 | 44                                 |
| 086 | B020000 | 731                                |
| 086 | C010000 | 0                                  |
| 086 | C020000 | 0                                  |
| 086 | D010000 | 0                                  |
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| 086 | E010000 | 0                                  |
| 086 | E020000 | 0                                  |
| 086 | F010000 | 0                                  |
| 086 | F020000 | 0                                  |

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|           |                   |              |
|-----------|-------------------|--------------|
| 087       | A010000           | COMMON STOCK |
| 087       | A020000           | 670682103    |
| 087       | A030000           | NMZ          |
| 088       | A000000           | N            |
| 088       | B000000           | N            |
| 088       | C000000           | N            |
| 088       | D000000           | Y            |
| SIGNATURE | STEPHEN D. FOY    |              |
| TITLE     | V.P. & CONTROLLER |              |