

NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND  
Form N-Q  
September 29, 2010

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT  
COMPANY

Investment Company Act file number 811-21449

Nuveen Municipal High Income Opportunity Fund  
(Exact name of registrant as specified in charter)

Nuveen Investments  
333 West Wacker Drive, Chicago, Illinois 60606  
(Address of principal executive offices) (Zip code)

Kevin J. McCarthy  
Vice President and Secretary  
333 West Wacker Drive, Chicago, Illinois 60606  
(Name and address of agent for service)

Registrant's telephone number, including area code: 312-917-7700

Date of fiscal year end: 10/31

Date of reporting period: 7/31/10

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.



## Item 1. Schedule of Investments

## Portfolio of Investments (Unaudited)

Nuveen Municipal High Income Opportunity Fund (NMZ)

July 31, 2010

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	National – 1.7% (1.3% of Total Investments)			
\$ 5,000	Charter Mac Equity Issuer Trust, Preferred Shares, Series 2004A-4, 6.000%, 12/31/45 (Mandatory put 4/30/19) (Alternative Minimum Tax)	4/19 at 100.00	Aaa	\$ 5,308,750
	Alabama – 1.3% (1.0% of Total Investments)			
1,975	Bessemer, Alabama, General Obligation Warrants, Series 2007, 6.500%, 2/01/37	2/17 at 102.00	N/R	1,436,358
2,000	Birmingham Special Care Facilities Financing Authority, Alabama, Revenue Bonds, Baptist Health System Inc., Series 2005A, 5.000%, 11/15/30	11/15 at 100.00	Baa2	1,775,520
1,000	Jefferson County, Alabama, Limited Obligation School Warrants, Education Tax Revenue Bonds, Series 2004A, 5.250%, 1/01/14	No Opt. Call	BBB	954,960
4,975	Total Alabama			4,166,838
	Alaska – 0.2% (0.1% of Total Investments)			
450	Alaska Municipal Bond Bank Authority, Revenue Bonds, Series 2009, 5.625%, 9/01/29	9/18 at 100.00	Aa3	481,932
	Arizona – 6.7% (5.1% of Total Investments)			
404	Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25	7/12 at 100.00	N/R	412,403
2,000	Maricopa County Industrial Development Authority, Arizona, Multifamily Housing Revenue Bonds, Privado Park Apartments Project, Series 2006A, 5.250%, 11/01/41 (Mandatory put 11/01/11) (Alternative Minimum Tax)	11/11 at 100.00	N/R	1,959,260
6,720	Maricopa County Industrial Development Authority, Arizona, Senior Living Facility Revenue Bonds, Christian Care Mesa II Inc., Series 2004A, 6.625%, 1/01/34 (Alternative Minimum Tax)	1/11 at 103.00	CC	5,465,376
	Phoenix Industrial Development Authority, Arizona, Educational Revenue Bonds, Keystone Montessori School, Series 2004A:			
195	6.375%, 11/01/13	11/11 at 103.00	N/R	198,953
790	7.250%, 11/01/23	11/11 at 103.00	N/R	783,577
1,715	7.500%, 11/01/33	11/11 at 103.00	N/R	1,688,778

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

550	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Noah Webster Basic Schools Inc., Series 2004, 6.125%, 12/15/34	12/14 at 100.00	BBB-	516,599
355	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Pointe Educational Services Charter School, Series 2004, 6.250%, 7/01/14 (ETM)	No Opt. Call	N/R (4)	430,349
1,150	Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.250%, 10/01/22 – ACA Insured	10/12 at 100.00	BBB-	1,093,305
1,000	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007: 5.500%, 12/01/29	No Opt. Call	A	991,110
5,000	Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007: 5.000%, 12/01/37 (5)	No Opt. Call	A	4,457,600
1,000	4.700%, 4/01/22	4/14 at 100.00	N/R	1,007,310
1,000	4.900%, 4/01/32	4/17 at 100.00	N/R	929,520
1,000	Tucson Industrial Development Authority, Arizona, Charter School Revenue Bonds, Arizona Agribusiness and Equine Center Charter School, Series 2004A, 5.850%, 9/01/24	9/14 at 100.00	BBB-	958,320
22,879	Total Arizona			20,892,460
	California – 10.9% (8.3% of Total Investments)			
1,810	California County Tobacco Securitization Agency, Tobacco Settlement Asset-Backed Bonds, Sonoma County Tobacco Securitization Corporation, Series 2005, 5.125%, 6/01/38	6/15 at 100.00	BBB	1,348,939
685	California Health Facilities Financing Authority, Hospital Revenue Bonds, Downey Community Hospital, Series 1993, 5.750%, 5/15/15 (9)	11/10 at 100.00	N/R	452,881
3,000	California Health Facilities Financing Authority, Revenue Bonds, Sutter Health, Tender Option Bond TRust 3103, 14.683%, 8/15/38 (IF)	8/18 at 100.00	Aa3	2,720,970
500	California Municipal Financing Authority, Certificates of Participation, Community Hospitals of Central California, Series 2007, 5.250%, 2/01/27	2/17 at 100.00	Baa2	477,680
4,000	California Statewide Communities Development Authority, Revenue Bonds, EnerTech Regional Biosolids Project, Series 2007A, 5.500%, 12/01/33 (Alternative Minimum Tax)	No Opt. Call	BB	2,488,000
2,925	California Statewide Community Development Authority, Revenue Bonds, Epidaurus Project, Series 2004A, 7.750%, 3/01/34	3/14 at 102.00	N/R	2,964,224
1,825			Aa3	1,620,290

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	California Statewide Community Development Authority, Revenue Bonds, Sutter Health, Tender	5/18 at 100.00		
	Option Bond Trust 3048, 16.929%, 11/15/38 (IF)			
	California Statewide Community Development Authority, Revenue Bonds, Sutter Health, Tender			
	Option Bond Trust 3102:			
745	17.090%, 11/15/38 (IF)	5/18 at 100.00	Aa3	661,679
1,000	18.164%, 11/15/48 (IF)	5/18 at 100.00	Aa3	970,920
1,005	California Statewide Community Development Authority, Subordinate Lien Multifamily Housing Revenue Bonds, Corona Park Apartments, Series 2004I-S, 7.750%, 1/01/34 (Alternative Minimum Tax)	1/14 at 100.00	N/R	964,679
1,000	Goden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Tender Option Bonds Trust 3107, 17.263%, 6/01/45 – AMBAC Insured (IF)	6/15 at 100.00	AA+	834,400
500	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.750%, 6/01/47	6/17 at 100.00	BBB	356,130
1,015	Independent Cities Lease Finance Authority, California, Subordinate Lien Revenue Bonds, El Granada Mobile Home Park, Series 2004B, 6.500%, 5/15/44	5/14 at 100.00	N/R	976,054
1,200	Lake Elsinore, California, Special Tax Bonds, Community Facilities District 2003-2 Improvement Area A, Canyon Hills, Series 2004A, 5.950%, 9/01/34	9/13 at 102.00	N/R	1,136,856
335	Lancaster Redevelopment Agency, California, Combined Project Areas Housing Programs, Tax Allocation Bonds, Series 2009, 6.875%, 8/01/39	8/19 at 100.00	A	375,445
3,400	Lee Lake Water District, Riverside County, California, Special Tax Bonds, Community Facilities District 3, Series 2004, 5.950%, 9/01/34	9/13 at 102.00	N/R	3,030,284
1,125	Los Angeles Department of Airports, California, Revenue Bonds, Los Angeles International Airport, Tender Option Bond Trust 10-27B, 17.540%, 5/15/40 (IF)	5/20 at 100.00	AA	1,213,740
2,950	Los Angeles Regional Airports Improvement Corporation, California, Sublease Revenue Bonds, Los Angeles International Airport, American Airlines Inc. Terminal 4 Project, Series 2002C, 7.500%, 12/01/24 (Alternative Minimum Tax)	12/12 at 102.00	B-	2,962,066
800	Moreno Valley Unified School District, Riverside County, California, Special Tax Bonds, Community Facilities District, Series 2004, 5.550%, 9/01/29	9/14 at 100.00	N/R	720,256
1,000	M-S-R Energy Authority, Gas Revenue Bonds, California Citigroup Prepay Contracts, Series 2009B, 6.500%, 11/01/39	No Opt. Call	A	1,098,660
250	Palomar Pomerado Health, California, General Obligation Bonds, Tender Option Bond Trust 4683,	8/17 at 100.00	Aa3	252,910

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	18.058%, 8/01/37 – NPFG Insured (IF)			
1,250	San Diego County, California, Certificates of Participation, San Diego-Imperial Counties Developmental Services Foundation Project, Series 2002, 5.500%, 9/01/27	9/12 at 100.00	Baa1	1,226,875
	Tahoe Forest Hospital District, Placer and Nevada Counties, California, General Obligation Bonds, Tender Option Bond Trust 11863:			
500	17.440%, 8/01/34 (WI/DD, Settling 8/03/10) (IF)	8/18 at 100.00	Aa3	501,960
1,500	17.440%, 8/01/34 (WI/DD, Settling 8/03/10) (IF)	8/18 at 100.00	Aa3	1,505,880
3,895	West Patterson Financing Authority, California, Special Tax Bonds, Community Facilities District 2001-1, Series 2004A, 6.125%, 9/01/39	9/13 at 103.00	N/R	3,129,905
38,215	Total California			33,991,683
	Colorado – 7.0% (5.3% of Total Investments)			
1,015	Bradburn Metropolitan District 3, Westminster, Adams County, Colorado, General Obligation Limited Tax Refunding Bonds, Series 2010, 7.500%, 12/01/39	12/13 at 102.00	N/R	1,023,242
6	Buffalo Ridge Metropolitan District, Colorado, Limited Obligation Assessment Bonds, Series 2003, 7.500%, 12/01/33 (Pre-refunded 12/01/13)	12/13 at 101.00	N/R (4)	7,006
400	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Academy Charter School – Douglas County School District Re. 1, Series 2000, 6.875%, 12/15/20 (Pre-refunded 12/15/10)	12/10 at 101.00	N/R (4)	412,688
650	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Bromley East Charter School, Series 2000A, 7.250%, 9/15/30 (Pre-refunded 9/15/11)	9/11 at 100.00	Ba1 (4)	699,907
3,500	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Cesar Chavez Academy, Series 2003, 8.000%, 5/01/34	5/14 at 101.00	N/R	2,834,650
435	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Excel Academy Charter School, Series 2003, 7.300%, 12/01/23 (Pre-refunded 12/01/11)	12/11 at 100.00	AAA	475,390
1,000	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Jefferson County School District R-1 – Compass Montessori Secondary School, Series 2006, 5.625%, 2/15/36	2/16 at 101.00	N/R	827,180
1,200	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Catholic Health Initiatives, Series 2006C-1, Trust 1090, 14.949%, 10/01/41 – AGM Insured (IF)	4/18 at 100.00	AAA	1,260,972
1,000	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Catholic Health Initiatives, Series 2008, Trust 1088:			
	13.147%, 9/01/34 (IF)		AA	267,550

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

		9/16 at		
		100.00		
		9/16 at		
260	13.774%, 9/01/41 (IF)	100.00	AAA	1,029,040
	Kit Carson County Health Service District, Colorado, Health Care	No Opt.		
3,145	Facility Revenue Bonds,	Call	N/R	2,982,278
	Series 2007, 6.750%, 1/01/34			
	Mesa County, Colorado, Residential Care Facilities Mortgage	12/11 at		
1,250	Revenue Bonds, Hilltop Community	101.00	N/R	1,195,363
	Resources Inc. Obligated Group, Series 2001A, 5.250%, 12/01/21 –			
	RAAI Insured			
	Mountain Shadows Metropolitan District, Colorado, General	12/16 at		
1,000	Obligation Limited Tax Bonds, Series	100.00	N/R	732,460
	2007, 5.500%, 12/01/27			
	Park Creek Metropolitan District, Colorado, Limited Tax Obligation	12/13 at		
1,990	Revenue Bonds, Series	100.00	N/R	2,062,794
	2003CR-2, 7.875%, 12/01/32 (Mandatory put 12/01/13)			
	Plaza Metropolitan District 1, Lakewood, Colorado, Tax Increment	6/14 at		
1,500	Revenue Bonds, Series 2003,	101.00	N/R	1,564,080
	8.000%, 12/01/25			
	Public Authority for Colorado Energy, Natural Gas Purchase	No Opt.		
3,565	Revenue Bonds, Colorado Springs	Call	A	3,891,055
	Utilities, Series 2008, 6.500%, 11/15/38			
	Tallyn's Reach Metropolitan District 3, Aurora, Colorado, Limited	12/13 at		
500	Tax General Obligation	100.00	N/R	507,070
	Bonds, Series 2004, 6.750%, 12/01/33			
22,416	Total Colorado			21,772,725
	Connecticut – 0.3% (0.3% of Total Investments)			
	Harbor Point Infrastructure Improvement District, Connecticut,	4/20 at		
1,000	Special Obligation Revenue	100.00	N/R	1,064,410
	Bonds, Harbor Point Project, Series 2010A, 7.875%, 4/01/39			
	District of Columbia – 0.1% (0.1% of Total Investments)			
	District of Columbia Tobacco Settlement Corporation, Tobacco	No Opt.		
225	Settlement Asset-Backed Bonds,	Call	BBB	216,702
	Series 2001, 6.500%, 5/15/33			
	Florida – 12.0% (9.1% of Total Investments)			
	Aberdeen Community Development District, Florida, Special	5/14 at		
1,450	Assessment Bonds, Series 2005,	100.00	N/R	793,933
	5.500%, 5/01/36			
	Beacon Lakes Community Development District, Florida, Special	5/13 at		
7,335	Assessment Bonds, Series 2003A,	101.00	N/R	7,308,081
	6.900%, 5/01/35			
	Broward County, Florida, Airport Facility Revenue Bonds, Learjet	11/14 at		
700	Inc., Series 2000, 7.500%,	101.00	Ba2	746,389
	11/01/20 (Alternative Minimum Tax)			
	Century Gardens Community Development District, Miami-Dade	5/14 at		
100	County, Florida, Special Assessment	101.00	N/R	98,112
	Revenue Bonds, Series 2004, 5.900%, 5/01/34			
	Harmony Community Development District, Florida, Special	5/14 at		
8,205	Assessment Bonds, Series 2001,	103.25	N/R	8,364,095
	7.250%, 5/01/32			

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

400	Islands at Doral Northeast Community Development District, Miami-Dade County, Florida, Special Assessment Bonds, Series 2004, 6.125%, 5/01/24	5/14 at 101.00	N/R	400,360
3,000	Jacksonville, Florida, Economic Development Commission Health Care Facilities Revenue Bonds, The Florida Proton Therapy Institute Project, Series 2007, 6.250%, 9/01/27	9/17 at 100.00	N/R	3,026,250
2,000	Martin County Industrial Development Authority, Florida, Industrial Development Revenue Bonds, Indiantown Cogeneration LP, Series 1994A, 7.875%, 12/15/25 (Alternative Minimum Tax)	12/10 at 100.00	BB+	1,999,980
1,000	Miami-Dade County, Florida, Aviation Revenue Bonds, Series 2008, Trust 1145, 11.642%, 4/01/32 – AGC Insured (Alternative Minimum Tax) (IF)	10/18 at 100.00	AAA	1,034,080
1,250	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Tender Option Bond Trust 11834, 17.360%, 10/01/33 – AGM Insured (IF)	10/20 at 100.00	AAA	1,408,650
955	Old Palm Community Development District, Florida, Special Assessment Bonds, Palm Beach Gardens, Series 2004A, 5.900%, 5/01/35	5/15 at 101.00	N/R	831,137
3,625	Palm Beach County Housing Finance Authority, Florida, Multifamily Housing Revenue Bonds, Lake Delray Apartments, Series 1999A, 6.400%, 1/01/31 (Alternative Minimum Tax)	7/12 at 100.00	N/R	3,146,210
1,920	Pine Island Community Development District, Florida, Special Assessment Bonds, Bella Collina, Series 2004, 5.750%, 5/01/35	5/12 at 101.00	N/R	1,326,010
1,000	Sarasota County Health Facility Authority, Florida, Revenue Bonds, Sarasota-Manatee Jewish Housing Council, Inc., Series 2007, 5.750%, 7/01/45	7/17 at 100.00	N/R	806,020
955	Tolomato Community Development District, Florida, Special Assessment Bonds, Series 2006, 5.400%, 5/01/37	5/14 at 101.00	N/R	738,253
1,715	Tolomato Community Development District, Florida, Special Assessment Bonds, Series 2007, 6.650%, 5/01/40	5/18 at 100.00	N/R	1,420,209
125	Westchester Community Development District 1, Florida, Special Assessment Bonds, Series 2003: 6.000%, 5/01/23	5/13 at 101.00	N/R	108,006
4,735	6.125%, 5/01/35	5/13 at 101.00	N/R	3,728,955
40,470	Total Florida			37,284,730
	Georgia – 1.0% (0.7% of Total Investments)			
500	Effingham County Development Authority, Georgia, Solid Waste Disposal Revenue Bonds, Ft. James Project, Series 1998, 5.625%, 7/01/18 (Alternative Minimum Tax)	1/11 at 100.00	BB–	484,530
1,000	Fulton County Residential Care Facilities Authority, Georgia, Revenue Bonds, Elderly Care, Lenbrook Square Project, Series 2006A, 5.125%, 7/01/37	7/17 at 100.00	N/R	654,350
1,865			N/R	1,903,046



Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Fulton County Residential Care Facilities Authority, Georgia, Revenue Bonds, St. Anne's Terrace, Series 2003, 7.625%, 12/01/33	12/13 at 102.00		
3,365	Total Georgia			3,041,926
	Guam – 0.5% (0.4% of Total Investments)			
1,445	Guam Government, General Obligation Bonds, 2009 Series A, 7.000%, 11/15/39	No Opt. Call	B+	1,569,126
	Hawaii – 0.8% (0.6% of Total Investments)			
980	Hawaii State Department of Budget and Finance, Private School Revenue Bonds, Montessori of Maui, Series 2007, 5.500%, 1/01/37	2/17 at 100.00	N/R	808,088
1,655	Hawaii State Department of Budget and Finance, Special Purpose Revenue Bonds, Hawaiian Electric Company, Inc. and Subsidiary Projects, Series 2009, 6.500%, 7/01/39	7/19 at 100.00	Baa1	1,808,137
2,635	Total Hawaii			2,616,225
	Illinois – 8.1% (6.1% of Total Investments)			
1,350	Chicago, Illinois, Certificates of Participation Tax Increment Revenue Notes, Chicago/Kingsbury Redevelopment Project, Series 2004A, 6.570%, 2/15/13	12/10 at 100.00	N/R	1,351,067
980	Chicago, Illinois, Certificates of Participation, Tax Increment Allocation Revenue Bonds, Diversey-Narragansett Project, Series 2006, 7.460%, 2/15/26	7/11 at 100.00	N/R	980,294
1,000	Illinois Finance Authority, Revenue Bonds, Elmhurst Memorial Healthcare, Series 2008A, 5.625%, 1/01/37	1/18 at 100.00	Baa1	950,550
1,000	Illinois Finance Authority, Revenue Bonds, Midwest Regional Medical Center Galena-Stauss Hospital, Series 2006, 6.750%, 10/01/46 (9)	10/16 at 100.00	N/R	723,550
1,000	Illinois Finance Authority, Revenue Bonds, Provena Health, Series 2009A, 7.750%, 8/15/34	8/19 at 100.00	BBB+	1,161,670
3,850	Illinois Finance Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 2009, 7.000%, 8/15/44	8/19 at 100.00	BBB	4,131,089
1,350	Illinois Health Facilities Authority, FHA-Insured Mortgage Revenue Refunding Bonds, Sinai Health System, Series 2003, 5.150%, 2/15/37	8/13 at 100.00	AAA	1,364,715
1,000	Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2002, 5.500%, 5/15/32 (Pre-refunded 5/15/12)	5/12 at 100.00	Aaa	1,088,400
7,800	Illinois Health Facilities Authority, Revenue Bonds, Lake Forest Hospital, Series 2002A, 5.750%, 7/01/29 (UB)	7/12 at 100.00	AA+	8,018,946
1,150	Lombard Public Facilities Corporation, Illinois, First Tier Conference Center and Hotel Revenue Bonds, Series 2005A-1, 7.125%, 1/01/36	1/16 at 100.00	N/R	937,308
1,431	Lombard Public Facilities Corporation, Illinois, Third Tier Conference Center and Hotel Revenue Bonds, Series 2005C-3, 12.000%, 1/01/36 (9),(10)	7/18 at 100.00	N/R	357,829
1,988			N/R	1,921,044

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Plano Special Service Area 1, Illinois, Special Tax Bonds, Lakewood Springs Project, Series 2004A, 6.200%, 3/01/34	3/14 at 102.00		
998	Volo Village, Illinois, Special Service Area 3 Special Tax Bonds, Symphony Meadows Project 1, Series 2006, 6.000%, 3/01/36 (Mandatory put 2/29/16)	3/16 at 102.00	N/R	806,643
1,000	Yorkville United City Business District, Illinois, Storm Water and Water Improvement Project Revenue Bonds, Series 2007, 6.000%, 1/01/26	1/17 at 102.00	N/R	597,570
960	Yorkville, Illinois, Special Service Area 2005-108 Assessment Bonds, Autumn Creek Project, Series 2006, 6.000%, 3/01/36	3/16 at 102.00	N/R	749,606
26,857	Total Illinois			25,140,281
	Indiana – 10.3% (7.8% of Total Investments)			
6,360	Carmel Redevelopment District, Indiana, Tax Increment Revenue Bonds, Series 2004A, 6.650%, 1/15/24	7/12 at 103.00	N/R	5,712,934
22,770	Indiana Finance Authority, Water Facilities Refunding Revenue Bonds, Indiana-American Water Company Inc. Project, Series 2006, 4.875%, 10/01/36 – AMBAC Insured (Alternative Minimum Tax)	10/16 at 100.00	Baa1	19,812,405
1,250	Indiana Health and Educational Facilities Financing Authority, Revenue Bonds, Ascension Health, Series 2009, Trust 3301, 14.326%, 11/15/30 (IF)	11/16 at 100.00	Aa1	1,314,438
2,500	Indiana Health Facility Financing Authority, Hospital Revenue Bonds, Community Foundation of Northwest Indiana, Series 2004A, 6.000%, 3/01/34	3/14 at 101.00	BBB	2,532,925
200	Jasper County, Indiana, Economic Development Revenue Refunding Bonds, Georgia Pacific Corporation Project, Series 2000, 6.700%, 4/01/29 (Alternative Minimum Tax)	10/10 at 101.00	Ba3	200,164
1,000	St. Joseph County, Indiana, Economic Development Revenue Bonds, Chicago Trail Village Apartments, Series 2005A, 7.500%, 7/01/35	7/15 at 103.00	N/R	992,110
1,560	Whitley County, Indiana, Solid Waste and Sewerage Disposal Revenue Bonds, Steel Dynamics Inc., Series 1998, 7.250%, 11/01/18 (Alternative Minimum Tax)	11/10 at 102.00	N/R	1,523,184
35,640	Total Indiana			32,088,160
	Iowa – 0.3% (0.2% of Total Investments)			
1,000	Iowa Finance Authority, Health Facility Revenue Bonds, Care Initiatives Project, Series 2006A, 5.500%, 7/01/25	7/16 at 100.00	BB+	831,590
	Louisiana – 5.1% (3.8% of Total Investments)			
5,000	Louisiana Local Government Environmental Facilities & Community Development Authority, Revenue Bonds, Westlake Chemical Corporation Project, Series 2007, 6.750%, 11/01/32	11/17 at 100.00	BB+	5,189,050
1,000	Louisiana Local Government Environmental Facilities and Community Development Authority, Carter Plantation Hotel Project Revenue Bonds, Series 2006A, 6.000%, 9/01/36 (6)	9/16 at 100.00	N/R	501,700

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

1,000	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, CDF Healthcare of Louisiana LLC, Series 2006A, 7.000%, 6/01/36	6/16 at 101.00	N/R	905,370
3,000	Louisiana Local Government Environmental Facilities and Community Development Authority, Revenue Bonds, Southgate Suites Hotel LLC Project, Series 2007A, 6.750%, 12/15/37	12/17 at 100.00	N/R	2,171,790
5,125	St. James Parish, Louisiana, Solid Waste Disposal Revenue Bonds, Freeport McMoran Project, Series 1992, 7.700%, 10/01/22 (Alternative Minimum Tax)	4/11 at 100.00	N/R	5,125,615
2,000	Tobacco Settlement Financing Corporation, Louisiana, Tobacco Settlement Asset-Backed Bonds, Series 2001B, 5.875%, 5/15/39	5/11 at 101.00	BBB	1,971,120
17,125	Total Louisiana Maine – 1.0% (0.8% of Total Investments)			15,864,645
3,155	Portland Housing Development Corporation, Maine, Section 8 Assisted Senior Living Revenue Bonds, Avesta Housing Development Corporation, Series 2004A, 6.000%, 2/01/34	2/14 at 102.00	Baa2	3,104,268
1,000	Maryland – 1.1% (0.9% of Total Investments) Baltimore, Maryland, Senior Lien Convention Center Hotel Revenue Bonds, Series 2006A, 5.250%, 9/01/39 – SYNCORA GTY Insured	9/16 at 100.00	Baa3	844,970
2,000	Maryland Energy Financing Administration, Revenue Bonds, AES Warrior Run Project, Series 1995, 7.400%, 9/01/19 (Alternative Minimum Tax)	9/10 at 100.00	N/R	2,000,900
350	Maryland Health and Higher Educational Facilities Authority, Revenue Bonds, MedStar Health, Series 2004, 5.500%, 8/15/33	8/14 at 100.00	A2	356,580
435	Prince George’s County, Maryland, Revenue Bonds, Dimensions Health Corporation, Series 1994, 5.300%, 7/01/24 (9)	1/11 at 100.00	B3	301,281
3,785	Total Maryland Massachusetts – 0.5% (0.3% of Total Investments)			3,503,731
400	Massachusetts Development Finance Agency, Pioneer Valley Resource Recovery Revenue Bonds, Eco/Springfield LLC, Series 2006, 5.875%, 7/01/14 (Alternative Minimum Tax)	No Opt. Call	N/R	385,636
1,350	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2004B, 6.375%, 7/01/34	7/14 at 100.00	BB	1,029,281
1,750	Total Massachusetts Michigan – 4.6% (3.5% of Total Investments)			1,414,917
1,180	Countryside Charter School, Berrien County, Michigan, Charter School Revenue Bonds, Series 1999, 7.000%, 4/01/29	10/10 at 100.00	N/R	1,081,317
835	Countryside Charter School, Berrien County, Michigan, Charter School Revenue Bonds, Series 2000, 8.000%, 4/01/29	10/10 at 100.00	N/R	835,017

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

Detroit Local Development Finance Authority, Michigan, Tax  
Increment Bonds, Series 1998A:

1,390	5.500%, 5/01/21	11/10 at 100.00	B-	770,658
15	5.500%, 5/01/21 – ACA Insured Detroit, Michigan, Distributable State Aid General Obligation Bonds, Tender Option Bond Trust	11/10 at 100.00 No Opt. Call	B-	8,619
1,000	3789, 18.420%, 5/01/18 (WI/DD, Settling 8/05/10) (IF) Garden City Hospital Finance Authority, Michigan, Revenue Bonds, Garden City Hospital Obligated Group, Series 2007A:		AA-	1,017,000
1,000	4.875%, 8/15/27	8/17 at 100.00	N/R	741,990
1,000	5.000%, 8/15/38 Michigan Public Educational Facilities Authority, Limited	8/17 at 100.00	N/R	680,480
1,000	Obligation Revenue Bonds, Chandler Park Academy Project, Series 2008, 6.500%, 11/01/35 Michigan Public Educational Facilities Authority, Limited	11/15 at 100.00	BBB	1,006,480
1,000	Obligation Revenue Bonds, Richfield Public School Academy, Series 2007, 5.000%, 9/01/36 Michigan State Hospital Finance Authority, Hospital Revenue	9/17 at 100.00	BBB-	793,750
3,580	Refunding Bonds, Detroit Medical Center Obligated Group, Series 1993B, 5.500%, 8/15/23 Michigan State Hospital Finance Authority, Revenue Bonds, Chelsea	8/10 at 100.00	BB-	3,455,595
500	Community Hospital, Series 2005, 5.000%, 5/15/30 (Pre-refunded 5/15/15) Michigan State Hospital Finance Authority, Revenue Bonds, Hills	5/15 at 100.00	AAA	587,060
1,500	and Dales General Hospital, Series 2005A, 6.750%, 11/15/38 Royal Oak Hospital Finance Authority, Michigan, Hospital Revenue	11/15 at 102.00	N/R	1,390,710
1,000	Bonds, William Beaumont Hospital, Refunding Series 2009V, 8.250%, 9/01/39 Summit Academy North Charter School, Michigan, Charter School	9/18 at 100.00	A1	1,197,730
1,000	Revenue Bonds, Series 2005, 5.500%, 11/01/30	11/15 at 100.00	BB+	810,120
16,000	Total Michigan Minnesota – 1.5% (1.1% of Total Investments) Ramsey, Anoka County, Minnesota, Charter School Lease Revenue			14,376,526
1,325	Bonds, PACT Charter School, Series 2004A, 6.750%, 12/01/33 St. Paul Housing and Redevelopment Authority, Minnesota, Charter	6/14 at 102.00	N/R	1,283,316
1,335	School Revenue Bonds, Higher Ground Academy Charter School, Series 2004A, 6.625%, 12/01/23 St. Paul Housing and Redevelopment Authority, Minnesota, Charter	6/14 at 102.00	N/R	1,351,354
1,100	School Revenue Bonds, HOPE Community Academy Charter School, Series 2004A, 6.750%, 12/01/33 St. Paul Port Authority, Minnesota, Lease Revenue Bonds,	6/14 at 102.00	N/R	1,023,836
1,000	HealthEast Midway Campus, Series	5/15 at 100.00	N/R	959,710

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	2005B, 6.000%, 5/01/30			
4,760	Total Minnesota			4,618,216
	Mississippi – 0.6% (0.4% of Total Investments)			
	Mississippi Home Corporation, Multifamily Housing Revenue	10/19 at		
906	Bonds, Tupelo Personal Care	101.00	N/R	691,545
	Apartments, Series 2004-2, 6.125%, 9/01/34 (Alternative Minimum Tax)			
	Warren County, Mississippi, Gulf Opportunity Zone Revenue	9/18 at		
1,000	Bonds, International Paper Company	100.00	BBB	1,061,830
	Project, Series 2008A, 6.500%, 9/01/32			
1,906	Total Mississippi			1,753,375
	Missouri – 2.8% (2.1% of Total Investments)			
	Branson Regional Airport Transportation Development District,	7/17 at		
2,000	Missouri, Project Revenue Bonds,	100.00	N/R	1,149,200
	Series 2007B, 6.000%, 7/01/37 (Alternative Minimum Tax)			
	Hanley Road Corridor Transportation Development District,	10/19 at		
1,000	Brentwood and Maplewood, Missouri,	100.00	A–	1,034,640
	Transportation Sales Revenue Bonds, Refunding Series 2009A,			
	5.875%, 10/01/36			
	Missouri Environmental Improvement and Energy Resources	12/16 at		
5,935	Authority, Water Facility Revenue	100.00	AA+	5,493,436
	Bonds, Missouri-American Water Company, Series 2006, 4.600%,			
	12/01/36 – AMBAC			
	Insured (Alternative Minimum Tax) (UB)			
	Saint Louis Industrial Development Authority, Missouri, Saint Louis	12/10 at		
1,300	Convention Center	102.00	Ca	416,780
	Headquarters Hotel Project, Series 2000A, 7.250%, 12/15/35			
	(Alternative Minimum Tax) (6)			
	Saint Louis, Missouri, Tax Increment Financing Revenue Bonds,	12/10 at		
795	Grace Lofts Redevelopment	100.00	N/R	604,844
	Projects, Series 2007A, 6.000%, 3/27/26			
11,030	Total Missouri			8,698,900
	Montana – 2.1% (1.6% of Total Investments)			
	Montana Board of Investments, Exempt Facility Revenue Bonds,	7/11 at		
5,200	Stillwater Mining Company, Series	100.50	B	4,832,100
	2000, 8.000%, 7/01/20 (Alternative Minimum Tax)			
	Montana Board of Investments, Resource Recovery Revenue Bonds,	No Opt.		
1,930	Yellowstone Energy LP, Series	Call	N/R	1,719,534
	1993, 7.000%, 12/31/19 (Alternative Minimum Tax)			
7,130	Total Montana			6,551,634
	Nebraska – 3.3% (2.5% of Total Investments)			
	Omaha Public Power District, Nebraska, Separate Electric System	2/17 at		
6,485	Revenue Bonds, Nebraska City	100.00	AA+	10,275,483
	2, Series 2006A, 19.811%, 8/01/40 – AMBAC Insured (IF)			
	Nevada – 0.4% (0.3% of Total Investments)			
	Clark County, Nevada, Local Improvement Bonds, Mountain’s Edge	8/16 at		
1,415	Special Improvement District	100.00	N/R	1,365,984
	142, Series 2003, 6.375%, 8/01/23			
	Director of Nevada State Department of Business and Industry,	1/12 at		
4,500	Revenue Bonds, Las Vegas	100.00	N/R	9,900
	Monorail Project, Second Tier, Series 2000, 7.375%, 1/01/40 (6)			

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

5,915	Total Nevada				1,375,884
	New Jersey – 2.1% (1.6% of Total Investments)				
	New Jersey Economic Development Authority, Cigarette Tax	6/14 at			
1,500	Revenue Bonds, Series 2004,	100.00	BBB		1,493,055
	5.750%, 6/15/29				
	New Jersey Economic Development Authority, Special Facilities	9/10 at			
1,660	Revenue Bonds, Continental	100.50	B		1,591,160
	Airlines Inc., Series 1999, 6.250%, 9/15/29 (Alternative Minimum Tax)				
	New Jersey Economic Development Authority, Special Facilities	11/10 at			
500	Revenue Bonds, Continental	101.00	B		501,235
	Airlines Inc., Series 2000, 7.000%, 11/15/30 (Alternative Minimum Tax)				
	New Jersey Educational Facilities Authority, Revenue Refunding	6/19 at			
600	Bonds, University of Medicine	100.00	Baa1		690,744
	and Dentistry of New Jersey, Series 2009B, 7.500%, 12/01/32				
	New Jersey Higher Education Assistance Authority, Student Loan	6/18 at			
1,000	Revenue Bonds, Series 2008A,	100.00	AAA		1,062,800
	6.125%, 6/01/30 – AGC Insured (Alternative Minimum Tax)				
	New Jersey Turnpike Authority, Revenue Bonds, Series 2009E,	1/19 at			
700	5.250%, 1/01/40	100.00	A+		742,217
	Tobacco Settlement Financing Corporation, New Jersey, Tobacco	6/17 at			
500	Settlement Asset-Backed Bonds,	100.00	BBB		329,545
	Series 2007-1A, 5.000%, 6/01/41				
6,460	Total New Jersey				6,410,756
	New York – 1.9% (1.5% of Total Investments)				
	Brooklyn Areba Local Development Corporation, New York,	No Opt.			
1,000	Payment in Lieu of Taxes Revenue	Call	BBB–		1,030,010
	Bonds, Barclays Center Project, Series 2009, 6.375%, 7/15/43				
	Metropolitan Transportation Authority, New York, Dedicated Tax	11/19 at			
1,000	Fund Bonds, Series 2009B,	100.00	AA		1,055,050
	5.000%, 11/15/34				
	New York City Industrial Development Agency, New York, Special	2/11 at			
1,700	Facilities Revenue Bonds,	100.00	CCC+		1,519,902
	American Airlines Inc., Series 1994, 6.900%, 8/01/24 (Alternative Minimum Tax)				
	New York Liberty Development Corporation, Second Priority	1/20 at			
1,375	Liberty Revenue Refunding Bonds,	100.00	BBB		1,441,069
	Bank of America Tower at One Bryant Park Project, Series 2010,				
	6.375%, 7/15/49				
	Seneca Nation of Indians Capital Improvements Authority, New	No Opt.			
1,000	York, Special Obligation Bonds,	Call	BB		918,520
	Series 2007A, 5.250%, 12/01/16				
6,075	Total New York				5,964,551
	North Carolina – 2.6% (2.0% of Total Investments)				
	Charlotte-Mecklenberg Hospital Authority, North Carolina,	1/18 at			
1,260	Carolinas HealthCare System Revenue	100.00	AA–		1,306,834
	Bonds, Series 2008, Trust 1149, 13.139%, 7/15/32 (IF)				
	North Carolina Capital Facilities Finance Agency, Solid Waste	7/12 at			
5,500	Facilities Revenue Bonds,	106.00	N/R		5,026,725

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Liberty Tire Services of North Carolina LLC, Series 2004A, 6.750%, 7/01/29			
	North Carolina Capital Facilities Financing Agency, Revenue Bonds,	10/16 at		
960	Duke University, Series	100.00	Aa1	1,704,211
	2008, Tender Option Bonds Trust 3248, 26.710%, 10/01/21 (IF)			
7,720	Total North Carolina			8,037,770
	Ohio – 4.1% (3.1% of Total Investments)			
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2:			
		6/17 at		
315	5.125%, 6/01/24	100.00	BBB	264,146
		6/17 at		
375	5.750%, 6/01/34	100.00	BBB	280,658
		6/17 at		
10,855	5.875%, 6/01/47	100.00	BBB	7,693,481
	Cleveland-Cuyahoga County Port Authority, Ohio, Development	5/14 at		
2,990	Revenue Bonds, Bond Fund Program –	102.00	N/R	2,272,908
	Garfield Heights Project, Series 2004D, 5.250%, 5/15/23			
	Ohio, Environmental Facilities Revenue Bonds, Ford Motor	4/15 at		
1,000	Company, Series 2005, 5.750%, 4/01/35	100.00	B	921,540
	(Alternative Minimum Tax)			
	Western Reserve Port Authority, Ohio, Solid Waste Facility Revenue	7/17 at		
4,000	Bonds, Central Waste Inc.,	102.00	N/R	1,411,720
	Series 2007A, 6.350%, 7/01/27 (Alternative Minimum Tax) (9)			
19,535	Total Ohio			12,844,453
	Oklahoma – 1.1% (0.8% of Total Investments)			
	Okeene Municipal Hospital and Schallmo Authority, Oklahoma,	1/16 at		
955	Revenue Bonds, Series 2006,	101.00	N/R	855,919
	7.000%, 1/01/35			
	Tulsa Municipal Airport Trust, Oklahoma, Revenue Refunding	No Opt.		
2,500	Bonds, American Airlines Inc.,	Call	Caa2	2,537,575
	Series 2004A, 7.750%, 6/01/35 (Mandatory put 12/01/14)			
3,455	Total Oklahoma			3,393,494
	Pennsylvania – 2.9% (2.2% of Total Investments)			
	Allegheny Country Industrial Development Authority, Allegheny	11/19 at		
800	County, Pennsylvania,	100.00	BB	856,384
	Environmental Improvement Revenue Bonds, United States Steel Corporation Project, Refunding			
	Series 2009, 6.875%, 5/01/30			
	Allentown Area Hospital Authority, Pennsylvania, Revenue Bonds,	No Opt.		
420	Sacred Heart Hospital, Series	Call	Ca	406,728
	2005, 6.000%, 11/15/16			
	Berks County Industrial Development Authority, Pennsylvania, First	11/17 at		
985	Mortgage Revenue Bonds, One	101.00	N/R	822,170
	Douglassville Properties Project, Series 2007A, 6.125%, 11/01/34 (Alternative Minimum Tax)			
	Chester County Health and Education Facilities Authority,	10/15 at		
2,000	Pennsylvania, Revenue Bonds,	102.00	N/R	1,830,840
	Immaculata University, Series 2005, 5.750%, 10/15/37			
400			BB+	383,992

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Chester County Industrial Development Authority, Pennsylvania, Avon Grove Charter School Revenue Bonds, Series 2007A, 6.375%, 12/15/37	12/17 at 100.00		
750	New Morgan Industrial Development Authority, Pennsylvania, Solid Waste Disposal Revenue Bonds, New Morgan Landfill Company Inc., Series 1994, 6.500%, 4/01/19 (Alternative Minimum Tax)	10/10 at 100.00	BBB	750,555
4,000	Pennsylvania Economic Development Financing Authority, Revenue Bonds, Amtrak 30th Street Station Parking Garage, Series 2002, 5.800%, 6/01/23 – ACA Insured (Alternative Minimum Tax)	6/12 at 102.00	BBB+	4,072,440
9,355	Total Pennsylvania Puerto Rico – 1.5% (1.1% of Total Investments)			9,123,109
3,000	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 0.000%, 8/01/32 (5)	8/26 at 100.00	A+	2,474,490
2,000	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2010A, 5.500%, 8/01/42	2/20 at 100.00	A+	2,043,780
5,000	Total Puerto Rico Rhode Island – 1.8% (1.4% of Total Investments)			4,518,270
1,000	Rhode Island Student Loan Authority, Student Loan Program Revenue Bonds, Series 2008A, 6.750%, 12/01/28 (Alternative Minimum Tax)	12/17 at 100.00	A	1,058,150
4,835	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2002A, 6.250%, 6/01/42	6/12 at 100.00	BBB	4,573,765
5,835	Total Rhode Island South Carolina – 1.2% (0.9% of Total Investments)			5,631,915
4,000	Lancaster County, South Carolina, Assessment Bonds, Edgewater II Improvement District, Series 2007A, 7.750%, 11/01/39	11/17 at 100.00	N/R	2,498,280
1,185	Richland County, South Carolina, Environmental Improvement Revenue Refunding Bonds, International Paper Company, Series 2003A, 6.100%, 4/01/23 (Alternative Minimum Tax)	4/13 at 101.00	BBB	1,212,563
5,185	Total South Carolina Tennessee – 3.9% (3.0% of Total Investments)			3,710,843
1,000	Sullivan County Health Educational and Housing Facilities Board, Tennessee, Revenue Bonds, Wellmont Health System, Refunding Series 2006A, 5.440%, 9/01/32	3/13 at 100.00	N/R	928,010
2,000	Sullivan County Health Educational and Housing Facilities Board, Tennessee, Revenue Bonds, Wellmont Health System, Series 2006C, 5.250%, 9/01/26	9/16 at 100.00	BBB+	1,951,140
2,000	Sumner County Health, Educational, and Housing Facilities Board, Tennessee, Revenue Refunding Bonds, Sumner Regional Health System Inc., Series 2007: 5.500%, 11/01/37 (9)	11/17 at 100.00	N/R	1,721,400
500	5.500%, 11/01/46 (9)		N/R	430,350



Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

		11/17 at		
		100.00		
	The Tennessee Energy Acquisition Corporation, Gas Revenue	No Opt.		
1,000	Bonds, Series 2006A, 5.250%, 9/01/23	Call	BB+	1,015,870
	The Tennessee Energy Acquisition Corporation, Gas Revenue	No Opt.		
5,601	Bonds, Series 2006B, 5.625%, 9/01/26	Call	N/R	5,391,467
	Wilson County Health and Educational Facilities Board, Tennessee,	7/17 at		
965	Senior Living Revenue Bonds,	100.00	N/R	842,773
	Rutland Place, Series 2007A, 6.300%, 7/01/37			
13,066	Total Tennessee			12,281,010
	Texas – 11.4% (8.5% of Total Investments)			
	Alliance Airport Authority, Texas, Special Facilities Revenue Bonds,	12/12 at		
1,000	American Airlines Inc.,	100.00	CCC+	715,050
	Series 2007, 5.250%, 12/01/29 (Alternative Minimum Tax)			
	Austin Convention Enterprises Inc., Texas, Convention Center Hotel	1/17 at		
2,000	Revenue Bonds, Second Tier	100.00	BB	1,779,040
	Series 2006B, 5.750%, 1/01/34			
	Austin Convention Enterprises Inc., Texas, Convention Center Hotel	1/11 at		
1,845	Revenue Bonds, Third Tier	100.00	N/R	1,846,199
	Series 2001C, 9.750%, 1/01/26			
	Brazos River Authority, Texas, Pollution Control Revenue	11/11 at		
10	Refunding Bonds, TXU Electric	100.00	CCC	9,535
	Company, Series 2001C, 5.750%, 5/01/36 (Mandatory put 11/01/11)			
	(Alternative Minimum Tax)			
	Brazos River Authority, Texas, Pollution Control Revenue	7/18 at		
700	Refunding Bonds, TXU Electric	100.00	CCC	381,262
	Company, Series 2001D, 8.250%, 5/01/33 (Alternative Minimum			
	Tax)			
	Clifton Higher Education Finance Corporation, Texas, Education	12/20 at		
1,000	Revenue Bonds, Uplift Education	100.00	BBB–	1,010,640
	Charter School, Series 2010A, 6.000%, 12/01/30			
	Clifton Higher Education Finance Corporation, Texas, Education	No Opt.		
2,000	Revenue Bonds, Tejano Center	Call	BBB–	2,343,720
	for Community Concerns, Inc.-Raul Yzaguirre School for Success,			
	Refunding Series 2009A,			
	9.000%, 2/15/38			
	Dallas-Ft. Worth International Airport Facility Improvement	11/12 at		
1,750	Corporation, Texas, Revenue Bonds,	100.00	CCC+	1,288,770
	American Airlines Inc., Series 2007, 5.500%, 11/01/30 (Alternative			
	Minimum Tax)			
	Decatur Hospital Authority, Texas, Revenue Bonds, Wise Regional			
	Health System, Series 2004A:			
		9/14 at		
1,840	7.000%, 9/01/25	100.00	N/R	1,852,788
		9/14 at		
6,600	7.125%, 9/01/34	100.00	N/R	6,654,582
	Gulf Coast Industrial Development Authority, Texas, Solid Waste	4/12 at		
585	Disposal Revenue Bonds, Citgo	100.00	Ba2	598,098
	Petroleum Corporation Project, Series 1998, 8.000%, 4/01/28			
	(Alternative Minimum Tax)			
1,000			N/R	870,050

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Heart of Texas Education Finance Corporation, Texas, Gateway Charter Academy, Series 2006A, 6.000%, 2/15/36	8/16 at 100.00		
2,020	Houston, Texas, Airport System Special Facilities Revenue Bonds, Continental Air Lines Inc., Series 1998B, 5.700%, 7/15/29 (Alternative Minimum Tax)	7/11 at 100.00	B3	1,768,611
	Houston, Texas, Airport System Special Facilities Revenue Bonds, Continental Air Lines Inc., Series 2001E:			
600	7.375%, 7/01/22 (Alternative Minimum Tax)	7/11 at 101.00	B3	605,688
975	6.750%, 7/01/29 (Alternative Minimum Tax)	7/11 at 101.00	B3	978,510
1,000	La Vernia Education Financing Corporation, Texas, Charter School Revenue Bonds, Riverwalk Education Foundation, Series 2007A, 5.450%, 8/15/36	8/11 at 100.00	N/R	804,340
1,035	North Texas Tollway Authority, System Revenue Bonds, First Tier Series 2009A, 6.250%, 1/01/39	1/19 at 100.00	A2	1,131,524
	Richardson Hospital Authority, Texas, Revenue Bonds, Richardson Regional Medical Center, Series 2004:			
2,000	5.875%, 12/01/24	12/13 at 100.00	Baa2	1,981,680
1,000	6.000%, 12/01/34	12/13 at 100.00	Baa2	968,840
1,000	Sabine River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Energy Company LLC Project, Series 2003B, 6.150%, 8/01/22	8/13 at 101.00	CCC	517,210
2,960	Tarrant County Cultural and Educational Facilities Finance Corporation, Texas, Revenue Bonds,	2/17 at 100.00	AA-	3,004,104
	Texas Health Resources Project, Trust 1031, 12.168%, 2/15/30 (IF)			
810	Texas Private Activity Bond Surface Transportation Corporation, Senior Lien Revenue Bonds, NTE	12/19 at 100.00	Baa2	844,166
	Mobility Partners LLC North Tarrant Express Managed Lanes Project, Series 2009, 6.875%, 12/31/39			
2,000	Texas Private Activity Bond Surface Transportation Corporation, Senior Lien Revenue Bonds, LBJ	6/20 at 100.00	Baa3	2,089,640
	Infrastructure Group LLC IH-635 Managed Lanes Project, Series 2010, 7.000%, 6/30/40			
1,000	Texas Public Finance Authority, Charter School Finance Corporation Revenue Bonds, Cosmos	2/15 at 100.00	BBB	931,260
	Foundation Inc., Series 2007A, 5.375%, 2/15/37			
340	Trinity River Authority of Texas, Pollution Control Revenue Refunding Bonds, TXU Electric	5/13 at 101.00	CCC	160,521
	Company, Series 2003, 6.250%, 5/01/28 (Alternative Minimum Tax)			
37,070	Total Texas			35,135,828
	Virgin Islands – 2.4% (1.8% of Total Investments)			
420	Virgin Islands Public Finance Authority, Matching Fund Revenue Loan Note – Diageo Project,	10/19 at 100.00	BBB	469,497

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

	Series 2009A, 6.750%, 10/01/37			
5,000	Virgin Islands Public Finance Authority, Revenue Bonds, Refinery Project – Hovensa LLC, Series 2003, 6.125%, 7/01/22 (Alternative Minimum Tax)	1/14 at 100.00	Baa3	5,067,200
2,000	Virgin Islands Public Finance Authority, Senior Secured Lien Revenue Bonds, Refinery Project – Hovensa LLC, Series 2004, 5.875%, 7/01/22	7/14 at 100.00	Baa3	2,022,860
7,420	Total Virgin Islands			7,559,557
	Virginia – 1.4% (1.0% of Total Investments)			
1,000	Giles County Industrial Development Authority, Virginia, Exempt Facility Revenue Bonds, Hoechst Celanese Project, Series 1996, 6.450%, 5/01/26	11/10 at 100.00	B+	996,160
1,940	Isle of Wight County Industrial Development Authority, Virginia, Environmental Improvement Revenue Bonds, International Paper Company Project, Series 2007A, 4.700%, 3/01/31 (Alternative Minimum Tax)	3/17 at 100.00	BBB	1,698,042
9,400	Metropolitan Washington Airports Authority, Virginia, Dulles Toll Road Revenue Bonds, Capital Appreciation Series 2009B-2, 0.000%, 10/01/38 – AGC Insured	No Opt. Call	BBB+	1,550,904
12,340	Total Virginia			4,245,106
	Washington – 3.2% (2.4% of Total Investments)			
1,780	Vancouver Downtown Redevelopment Authority, Washington, Revenue Bonds, Conference Center Project, Series 2003A: 6.000%, 1/01/28 – ACA Insured	1/14 at 100.00	N/R	1,521,204
4,745	6.000%, 1/01/34 – ACA Insured	1/14 at 100.00	N/R	4,067,175
2,500	5.250%, 1/01/34 – ACA Insured	1/14 at 100.00	N/R	1,900,323
1,000	Washington State Economic Development Finance Authority, Revenue Bonds, Coeur D'Alene Fiber Project, Series 2007G, 7.000%, 12/01/27 (Alternative Minimum Tax) (6)	12/17 at 100.00	N/R	716,240
2,000	Washington State Health Care Facilities Authority, Revenue Bonds, Northwest Hospital and Medical Center of Seattle, Series 2007, 5.700%, 12/01/32	No Opt. Call	N/R	1,680,580
12,025	Total Washington			9,885,522
	West Virginia – 0.6% (0.5% of Total Investments)			
500	Ohio County Commission, West Virginia, Special District Excise Tax Revenue Bonds, Fort Henry Economic Development, Series 2006B, 5.625%, 3/01/36	3/16 at 100.00	BBB	472,490
500	Ohio County Commission, West Virginia, Tax Increment Revenue Bonds, Fort Henry Centre Financing District, Series 2007A, 5.850%, 6/01/34	No Opt. Call	N/R	460,834
1,000	West Virginia Hospital Finance Authority, Hospital Revenue Bonds, Charleston Area Medical Center, Series 2009A, 5.500%, 9/01/28	9/14 at 100.00	A2	1,021,190
2,000	Total West Virginia			1,954,514
	Wisconsin – 5.9% (4.5% of Total Investments)			

Edgar Filing: NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND - Form N-Q

550	Lac Courte Oreilles Band of Lake Superior Chippewa Indians, Wisconsin, Revenue Bonds, Series 2003A, 7.750%, 6/01/16 (Pre-refunded 12/01/14)	12/14 at 101.00	N/R (4)	707,196
2,300	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Aurora Health Care Inc., Series 1999A, 5.600%, 2/15/29 – ACA Insured	10/10 at 100.00	A3	2,299,770
2,500	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Marshfield Clinic, Series 1997, 5.750%, 2/15/27 – NPMFG Insured	8/10 at 100.00	A	2,500,500
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Southwest Health Center Inc., Series 2004A, 6.250%, 4/01/34	4/14 at 100.00	N/R	990,140
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, ThedaCare, Inc., Series 2009A, 5.500%, 12/15/38	12/19 at 100.00	A1	1,032,460
6,995	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Wheaton Franciscan Healthcare System, Series 2006: 5.250%, 8/15/26	8/16 at 100.00	BBB+	6,812,920
4,500	5.250%, 8/15/34	8/16 at 100.00	BBB+	4,137,435
18,845	Total Wisconsin			18,480,421
\$ 456,999	Total Investments (cost \$414,713,762) – 132.2%			411,182,236
	Floating Rate Obligations – (3.3)%			(10,300,000)
	Other Assets Less Liabilities – 1.6%			5,115,150
	Auction Rate Preferred Shares, at Liquidation Value – (30.5)% (7)			(95,000,000)
				\$
	Net Assets Applicable to Common Shares – 100%			310,997,386

Investments in Derivatives

Forward Swaps outstanding at July 31, 2010:

Counterparty	Notional Amount	Fund Pay/Receive	Floating Rate Index	Fixed Rate (Annualized)	Fixed Rate Payment Frequency	Effective Date (8)	Termination Date (Depreciation)	Unrealized Appreciation
Barclays Bank PLC	\$2,500,000	Receive	3-Month USD-LIBOR	4.720%	Semi-Annually	5/25/11	5/25/40	\$ (389,500)
JP Morgan	4,000,000	Receive	3-Month USD-LIBOR	4.783	Semi-Annually	5/05/11	5/05/40	(676,400) \$(1,065,900)

Fair Value Measurements

In determining the value of the Fund's investments, various inputs are used. These inputs are summarized in the three broad levels listed below:

Level 1 – Quoted prices in active markets for identical securities.

Level 2 – Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risk associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of July 31, 2010:

	Level 1	Level 2	Level 3	Total
Investments:				
Municipal Bonds	\$ —	\$405,783,225	\$5,399,011	\$411,182,236
Derivatives:				
Forward Swaps*	—	(1,065,900)	—	(1,065,900)
Total	\$ —	\$404,717,325	\$5,399,011	\$410,116,336

\* Represents net unrealized appreciation (depreciation).

The following is a reconciliation of the Fund's Level 3 investments held at the beginning and end of the measurement period:

	Level 3 Investments
Balance at the beginning of period	\$ —
Gains (losses):	
Net realized gains (losses)	—
Net change in unrealized appreciation (depreciation)	—
Net purchases at cost (sales at proceeds)	—
Net discounts (premiums)	—
Net transfers in to (out of) at end of period fair value	5,399,011
Balance at the end of period	\$ 5,399,011

#### Derivative Instruments and Hedging Activities

The Fund records derivative instruments at fair value, with changes in fair value recognized on the Statement of Operations, when applicable. Even though the Fund's investments in derivatives may represent economic hedges, they are not considered to be hedge transactions for financial reporting purposes.

The following table presents the fair value of all derivative instruments held by the Fund as of July 31, 2010, the location of these instruments on the Statement of Assets and Liabilities, and the primary underlying risk exposure.

Underlying Risk Exposure	Derivative Instrument	Location on the Statement of Assets and Liabilities			
		Asset Derivatives Location	Value	Liability Derivatives Location	Value
Interest Rate	Forward Swaps	Unrealized appreciation on forward swaps*	\$ —	Unrealized depreciation on forward swaps*	\$1,065,900

\* Represents cumulative appreciation (depreciation) of swap contracts as reported in the Portfolio of Investments.

#### Income Tax Information

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to timing differences in recognizing taxable market discount, timing differences in recognizing certain gains and losses on investment transactions and the treatment of investments in inverse floating rate securities reflected as financing transactions, if any. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

At July 31, 2010, the cost of investments was \$407,180,898.

Gross unrealized appreciation and gross unrealized depreciation of investments (excluding investments in derivatives) at July 31, 2010, were as follows:

Gross unrealized:

Appreciation	\$ 33,566,268
Depreciation	(39,865,302)
Net unrealized appreciation (depreciation) of investments	\$ (6,299,034)

- (1) All percentages shown in the Portfolio of Investments are based on net assets applicable to Common shares unless otherwise noted.
- (2) Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption. There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
- (3) Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investor Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade.  
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency
- (4) securities,  
which ensure the timely payment of principal and interest. Such investments are normally considered to be equivalent to AAA rated securities.
- (5) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in derivatives and/or inverse floating rate transactions.
- (6) The Fund's Adviser has concluded this issue is not likely to meet its future interest payment obligations and has directed the Fund's custodian to cease accruing additional income on the Fund's records.
- (7) Auction Rate Preferred Shares, at Liquidation Value as a percentage of Total Investments is 23.1%.  
Effective date represents the date on which both the Fund and Counterparty commence interest
- (8) payment  
accruals on each forward swap contract.
- (9) For fair value measurement disclosure purposes, investment categorized as Level 3.
- (10) During the current fiscal period, the Fund has not received the full amount of interest payments due on this issue. As such, the Adviser has instructed the custodian to decrease the interest rate accrual on this issue from 12.00% annually to 2.50% annually and to reflect such change in the Fund's records.

N/R Not rated.

WI/DD Purchased on a when-issued or delayed delivery basis.

(ETM) Escrowed to maturity.

(IF) Inverse floating rate investment.

(UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.

USD-LIBOR United States Dollar-London Inter-Bank Offered Rate.

Item 2. Controls and Procedures.

- a. The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act") (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934 (17 CFR 240.13a-15(b) or 240.15d-15(b)).
  
- b. There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act (17 CFR 270.30a-3(d)) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3. Exhibits.

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)), exactly as set forth below: See EX-99 CERT attached hereto.

---



SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Nuveen Municipal High Income Opportunity Fund

By (Signature and Title) /s/ Kevin J. McCarthy  
Kevin J. McCarthy  
Vice President and Secretary

Date September 29, 2010

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title) /s/ Gifford R. Zimmerman  
Gifford R. Zimmerman  
Chief Administrative Officer (principal executive officer)

Date September 29, 2010

By (Signature and Title) /s/ Stephen D. Foy  
Stephen D. Foy  
Vice President and Controller (principal financial officer)

Date September 29, 2010