

NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND
Form N-Q
September 28, 2012

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: 7/31/12

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, 2012

Principal Amount	Description (1)	Optional Call Provisions	(2) Ratings	(3) Value
	Alabama – 1.2% (1.1% of Total Investments)			
\$ 1,000	Adamsville Solid Waste Disposal Authority, Alabama, Solid Waste Disposal Revenue Bonds, Green Mountain Management LLC Project, Series 2010, 8.750%, 8/01/30	8/20 at 100.00	N/R	\$ 1,006,660
1,000	Alabama Industrial Development Authority, Solid Waste Disposal Revenue Bonds, Pine City Fiber Co. Project, Series 1993, 6.450%, 12/01/23 (Alternative Minimum Tax)	1/13 at 100.00	B2	982,580
1,915	Bessemer, Alabama, General Obligation Warrants, Series 2007, 6.500%, 2/01/37	2/17 at 102.00	N/R	1,749,870
1,000	Jefferson County, Alabama, Limited Obligation School Warrants, Education Tax Revenue Bonds, Series 2004A, 5.250%, 1/01/14	No Opt. Call	B	1,003,140
4,915	Total Alabama			4,742,250
	Arizona – 7.0% (6.1% of Total Investments)			
1,420	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Tender Option Bond Trust 3256, 17.535%, 1/01/29 (IF)	1/18 at 100.00	AA-	1,802,662
1,760	Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Tender Option Bond Trust 4695, 18.629%, 1/01/32 (IF) (4)	1/18 at 100.00	AA-	2,610,661
343	Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25	1/13 at 100.00	N/R	343,648
2,000	Maricopa County Industrial Development Authority, Arizona, Multifamily Housing Revenue Bonds, Privado Park Apartments Project, Series 2010, 5.000%, 11/01/46 (Mandatory put 11/01/15) (Alternative Minimum Tax) (5)	11/12 at 100.00	N/R	1,599,960
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)	1/14 at 100.00	CC	5,353,488
100	Phoenix Industrial Development Authority, Arizona, Educational Revenue Bonds, Keystone Montessori School, Series 2004A: 6.375%, 11/01/13		N/R	101,298

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		11/12 at		
		103.00		
		11/16 at		
790	7.250%, 11/01/23	100.00	N/R	815,193
		11/16 at		
1,715	7.500%, 11/01/33	100.00	N/R	1,769,691
	Phoenix Industrial Development Authority, Arizona, Lease Revenue	6/22 at		
1,500	Bonds, Rowan University	100.00	A+	1,910,520
	Project, Tender Option Bond Trust 1086, 17.141%, 6/01/42 (IF) (4)			
	Pima County Industrial Development Authority, Arizona, Charter	12/14 at		
550	School Revenue Bonds, Noah	100.00	BBB-	555,924
	Webster Basic Schools Inc., Series 2004, 6.125%, 12/15/34			
	Pima County Industrial Development Authority, Arizona, Charter	No Opt.		
200	School Revenue Bonds, Pointe	Call	AA+ (6)	222,950
	Educational Services Charter School, Series 2004, 6.250%, 7/01/14			
	(ETM)			
	Pima County Industrial Development Authority, Arizona, Education	1/22 at		
1,500	Revenue Bonds, Carden	100.00	BBB-	1,609,755
	Traditional Schools Project, Series 2012, 7.500%, 1/01/42			
	Pima County Industrial Development Authority, Arizona, Education			
	Revenue Bonds, Paradise			
	Education Center Project, Series 2010:			
		6/19 at		
500	6.000%, 6/01/40	100.00	BBB-	509,480
		6/19 at		
500	6.100%, 6/01/45	100.00	BBB-	510,290
	Pinal County Industrial Development Authority, Arizona, Correctional	10/12 at		
1,150	Facilities Contract Revenue	100.00	BBB-	1,151,185
	Bonds, Florence West Prison LLC, Series 2002A, 5.250%, 10/01/22 –			
	ACA Insured			
	Quechan Indian Tribe of the Fort Yuma Reservation, Arizona,	12/17 at		
1,000	Government Project Bonds, Series	102.00	CCC	891,000
	2008, 7.000%, 12/01/27			
	Quechan Indian Tribe of the Fort Yuma Reservation, Arizona, Tribal	5/22 at		
1,000	Economic Development Bonds,	100.00	N/R	1,057,850
	Series 2012A, 9.750%, 5/01/25			
	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue	No Opt.		
2,000	Bonds, Citigroup Energy Inc	Call	B	2,024,500
	Prepay Contract Obligations, Series 2007, 5.500%, 12/01/37			
	Surprise Municipal Property Corporation, Arizona, Wastewater	4/14 at		
1,000	System Revenue Bonds, Series	100.00	A-	1,017,810
	2007, 4.700%, 4/01/22			
	Tucson Industrial Development Authority, Arizona, Charter School	9/14 at		
1,000	Revenue Bonds, Arizona	100.00	BB+	995,660
	Agribusiness and Equine Center Charter School, Series 2004A,			
	5.850%, 9/01/24			
26,748	Total Arizona			26,853,525
	California – 16.1% (14.0% of Total Investments)			
	California Enterprise Development Authority, Recovery Zone Facility	4/21 at		
1,000	Revenue Bonds, SunPower	100.00	N/R	1,160,300
	Corporation – Headquarters Project, Series 2010, 8.500%, 4/01/31			

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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	B-	1,501,087
1,250	California Health Facilities Financing Authority, Refunding Revenue Bonds, Stanford Hospital and Clinics, Tender Option Bond Trust 3267, 18.750%, 5/15/31 (IF) (4)	11/21 at 100.00	AA-	1,957,700
3,425	California State University, Systemwide Revenue Bonds, Tender Option Bond Trust 4696, 16.642%, 11/01/35 – AMBAC Insured (IF) (4)	5/15 at 100.00	Aa2	4,635,327
4,000	California Statewide Communities Development Authority, Revenue Bonds, EnerTech Regional Biosolids Project, Series 2007A, 5.500%, 12/01/33 (Alternative Minimum Tax) (5)	No Opt. Call	D	319,960
1,000	California Statewide Communities Development Authority, Statewide Community Infrastructure Program Revenue Bonds, Series 2011A, 8.000%, 9/02/41	9/21 at 100.00	N/R	1,067,000
2,915	California Statewide Community Development Authority, Revenue Bonds, Epidaurus Project, Series 2004A, 7.750%, 3/01/34	3/14 at 102.00	N/R	3,050,606
515	California Statewide Community Development Authority, Revenue Bonds, Sutter Health, Tender Option Bond Trust 3048, 17.073%, 11/15/38 (IF)	5/18 at 100.00	AA-	647,782
745	California Statewide Community Development Authority, Revenue Bonds, Sutter Health, Tender Option Bond Trust 3102: 17.368%, 11/15/38 (IF) (4)	5/18 at 100.00	AA-	938,462
1,000	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)	5/18 at 100.00	AA-	1,303,120
1,005	Fontana Public Financing Authority, California, Tax Allocation Revenue Bonds, North Fontana Redevelopment Project, Tender Option Bonds Trust 1013, 18.794%, 9/01/32 – AMBAC Insured (IF) (4)	1/14 at 100.00	N/R	1,011,623
500	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Tender Option Bonds Trust 3107, 17.363%, 6/01/45 – AMBAC Insured (IF)	10/12 at 100.00	A+	543,860
1,000	Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Revenue Bonds, Tender Option Bond Trust 1011: 17.151%, 6/01/45 (IF) (4)	6/15 at 100.00	AA+	1,124,820
750		6/15 at 100.00	A2	819,360

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500	17.130%, 6/01/45 (IF) (4)	6/15 at 100.00	A2	546,180
	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1:			
1,750	5.000%, 6/01/33	6/17 at 100.00	BB-	1,404,935
500	5.750%, 6/01/47	6/17 at 100.00	BB-	423,315
1,000	5.125%, 6/01/47	6/17 at 100.00	BB-	764,770
1,000	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-2, 0.000%, 6/01/37	6/22 at 100.00	BB-	789,840
1,500	Grossmont Healthcare District, California, General Obligation Bonds, Tender Option Bond Trust 3253, 22.214%, 1/15/19 (IF) (4)	No Opt. Call	Aa2	2,876,520
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	1,225,956
335	Lancaster Redevelopment Agency, California, Tax Allocation Bonds, Combined Redevelopment Project Areas Housing Programs, Series 2009, 6.875%, 8/01/39	8/19 at 100.00	BBB+	381,763
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	3,510,330
1,000	Long Beach Bond Finance Authority, California, Natural Gas Purchase Revenue Bonds, Series 2007A, 5.500%, 11/15/37	No Opt. Call	A	1,097,100
1,125	Los Angeles Department of Airports, California, Revenue Bonds, Los Angeles International Airport, Tender Option Bond Trust 10-27B, 18.329%, 5/15/40 (IF) (4)	5/20 at 100.00	AA	1,684,260
1,000	Lynwood Redevelopment Agency, California, Project A Revenue Bonds, Subordinate Lien Series 2011A, 7.000%, 9/01/31	9/21 at 100.00	A-	1,178,130
1,000	March Joint Powers Redevelopment Agency, California, March Air Force Base Redevelopment Project Tax Allocation Revenue Bonds, Series 2011A:	8/21 at 100.00	BBB+	1,178,480
1,000	7.000%, 8/01/26	8/21 at 100.00	BBB+	1,171,500
1,000	7.500%, 8/01/41	8/21 at 100.00	BBB+	1,171,500
1,000	M-S-R Energy Authority, California, Gas Revenue Bonds, Citigroup Prepay Contracts, Series 2009B, 6.500%, 11/01/39	No Opt. Call	A	1,267,310
500	National City Community Development Commission, California, Tax Allocation Bonds, National City Redevelopment Project, Series 2011, 7.000%, 8/01/32	8/21 at 100.00	A-	633,890
330	Novato Redevelopment Agency, California, Tax Allocation Bonds, Hamilton Field Redevelopment Project, Series 2011, 6.750%, 9/01/40	9/21 at 100.00	A-	380,853

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1,000	Palomar Pomerado Health Care District, California, Certificates of Participation, Series 2010, 6.000%, 11/01/41	11/20 at 100.00	Baa3	1,072,770
250	Palomar Pomerado Health, California, General Obligation Bonds, Tender Option Bond Trust 4683, 17.368%, 8/01/37 – NPMFG Insured (IF) (4)	8/17 at 100.00	A+	325,130
1,000	Pittsburg Redevelopment Agency, California, Tax Allocation Bonds, Los Medanos Community Development Project, Refunding Series 2008A, 6.500%, 9/01/28	9/18 at 100.00	BBB	1,072,000
947	River Rock Entertainment Authority, California, Revenue Bonds, Senior Notes Series 2011B, 8.000%, 11/01/18	11/15 at 104.00	N/R	919,281
1,000	Riverside County Public Financing Authority, California, Tax Allocation Bonds, Multiple Projects, Series 2004, 5.000%, 10/01/35 – SYNCORA GTY Insured	10/14 at 100.00	BBB	991,800
1,200	Riverside County Redevelopment Agency, California, Tax Allocation Bonds, Jurupa Valley Project Area, Series 2011B, 6.750%, 10/01/30	10/21 at 100.00	A–	1,350,924
750	Sacramento City Financing Authority California, Lease Revenue Bonds, Master Lease Program Facilities Projects, Tender Option Bond Trust 4698: 17.584%, 12/01/30 – AMBAC Insured (IF) (4)	No Opt. Call	Aa3	1,300,710
2,015	San Buenaventura, California, Revenue Bonds, Community Memorial Health System, Series 2011: 18.165%, 12/01/33 – AMBAC Insured (IF) (4)	No Opt. Call	Aa3	3,419,294
960	8.000%, 12/01/26	12/21 at 100.00	BB	1,233,187
1,000	8.000%, 12/01/31	12/21 at 100.00	BB	1,266,880
1,000	San Jose, California, Airport Revenue Bonds, Tender Option Bond Trust 3923, 17.370%, 9/01/31 – AMBAC Insured (IF) (4)	3/17 at 100.00	AA–	1,251,040
1,000	Santee Community Development Commission, California, Santee Redevelopment Project Tax Allocation Bonds, Series 2011A, 7.000%, 8/01/41	2/21 at 100.00	A	1,159,270
1,000	Temecula Redevelopment Agency, California, Tax Allocation Revenue Bonds, Redevelopment Project 1, Series 2002, 5.250%, 8/01/36 – NPMFG Insured	8/12 at 100.00	A–	1,000,680
650	Twentynine Palms Redevelopment Agency, California, Tax Allocation Bonds, Four Corners Project Area, Series 2011A, 7.650%, 9/01/42	9/21 at 100.00	BBB+	763,061
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	3,836,530
56,722	Total California Colorado – 6.8% (5.9% of Total Investments)			61,558,696
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	1,049,825

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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 (6)	6,525
3,500	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Cesar Chavez Academy, Series 2003, 8.000%, 5/01/34 (5)	5/14 at 101.00	N/R	2,829,050
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	898,540
1,350	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Colorado Senior Residences Project, Series 2012, 6.750%, 6/01/32	6/22 at 100.00	N/R	1,430,420
1,000	Compark Business Campus Metropolitan District, Douglas County, Colorado, General Obligation Bonds, Series 2012A, 6.750%, 12/01/39 – RAAI Insured	12/22 at 100.00	N/R	1,023,010
1,000	Confluence Metropolitan District, Colorado, General Obligation Limited Tax Bonds, Series 2007, 5.450%, 12/01/34	12/17 at 100.00	N/R	823,760
2,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/27 – NPMF Insured	No Opt. Call	BBB	957,280
3,145	Kit Carson County Health Service District, Colorado, Health Care Facility Revenue Bonds, Series 2007, 6.750%, 1/01/34	1/18 at 100.00	N/R	3,265,737
1,250	Mesa County, Colorado, Residential Care Facilities Mortgage Revenue Bonds, Hilltop Community Resources Inc. Obligated Group, Series 2001A, 5.250%, 12/01/21 – RAAI Insured	12/12 at 100.00	N/R	1,252,663
1,000	Mountain Shadows Metropolitan District, Colorado, General Obligation Limited Tax Bonds, Series 2007, 5.500%, 12/01/27	12/16 at 100.00	N/R	832,450
1,985	Park Creek Metropolitan District, Colorado, Limited Tax Obligation Revenue Bonds, Series 2003CR-2, 7.875%, 12/01/32 (Mandatory put 12/01/13)	12/13 at 100.00	N/R	2,064,400
1,500	Plaza Metropolitan District 1, Lakewood, Colorado, Tax Increment Revenue Bonds, Series 2003, 8.000%, 12/01/25	6/14 at 101.00	N/R	1,557,210
3,565	Public Authority for Colorado Energy, Natural Gas Purchase Revenue Bonds, Colorado Springs Utilities, Series 2008, 6.500%, 11/15/38	No Opt. Call	A	4,416,001
500	Regional Transportation District, Colorado, Denver Transit Partners Eagle P3 Project Private Activity Bonds, Series 2010, 6.500%, 1/15/30	7/20 at 100.00	Baa3	601,635
625	Rendezvous Residential Metropolitan District, Colorado, Limited Tax General Obligation Bonds, Refunding Series 2007, 5.375%, 12/01/21	12/17 at 100.00	N/R	583,356
1,000	Stone Ridge Metropolitan District 2, Colorado, General Obligation Bonds, Limited Tax Convertible to Unlimited, Series 2007, 7.250%, 12/01/31	12/17 at 100.00	N/R	255,250