Nuveen AMT-Free Municipal Value Fund Form N-Q September 29, 2016

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM N-O

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-22253

Nuveen AMT-Free Municipal Value 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: 7/31/16

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

Nuveen AMT-Free Municipal Value Fund (NUW) July 31, 2016 (Unaudited)

Principal Amount (000)	Description (1) LONG-TERM INVESTMENTS – 101.2%	Optional Call Provisions (2)	Ratings (3)	Value
	MUNICIPAL BONDS – 101.2%			
	Alaska – 0.4% Northern Tobacco Securitization Corporation, Alaska, Tobacco Settlement Asset-Backed Bonds, Series 2006A:			
\$ 625	4.625%, 6/01/23	10/16 at 100.00	Ba1	\$ 635,006
350	5.000%, 6/01/46	10/16 at 100.00	В3	346,493
975	Total Alaska Arizona – 3.4%			981,499
4,000	Maricopa County Pollution Control Corporation, Arizona, Pollution Control Revenue Bonds, El Paso Electric Company, Refunding Series 2009A, 7.250%, 2/01/40	2/19 at 100.00	Baa1	4,595,800
3,045	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007, 5.000%, 12/01/37	No Opt. Call	BBB+	3,920,833
7,045	Total Arizona California – 13.2%			8,516,633
1,730	Anaheim Public Financing Authority, California, Lease Revenue Bonds, Public Improvement Project, Series 1997C, 0.000%, 9/01/30 – AGM Insured	No Opt. Call	AA	1,120,781
1,480	California Health Facilities Financing Authority, Revenue Bonds, Sutter Health, Series 2007A, 5.250%, 11/15/46 (Pre-refunded 11/15/16)	11/16 at 100.00	AA- (6)	1,501,342
2,500	California State Public Works Board, Lease Revenue Bonds, Department of General Services Buildings 8 & 9, Series 2009A, 6.250%, 4/01/34	4/19 at 100.00	A+	2,863,625
500	California State, General Obligation Bonds, Tender Option Bonds Trust 3162, 18.510%, 3/01/40 – AGM Insured (IF) (4)	1 3/20 at 100.00	AA	797,380
4,235	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed	6/17 at 100.00	В-	4,268,160

450	Bonds, Series 2007A-1, 5.000%, 6/01/33 M-S-R Energy Authority, California, Gas Revenue Bonds,	No Opt. Call	A	671,049
	Citigroup Prepay Contracts, Series 2009A, 6.500%, 11/01/39	-		-,-,-,-
10,200	Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/38 – AGC Insured (5)	8/29 at 100.00	AA	12,531,412
1,030	Poway Unified School District, San Diego County, California, General Obligation Bonds, School Facilities Improvement District 2007-1, Series 2011A, 0.000%,	No Opt. Call	AA-	593,136
12,955	8/01/35 San Ysidro School District, San Diego County, California, General Obligation Bonds, 1997 Election Series 2012G, 0.000%, 8/01/35 – AGM Insured	No Opt. Call	AA	6,743,466
5,185	San Veidro School District San Diego County California	No Opt. Call	AA	1,485,191
700	Victor Elementary School District, San Bernardino County, California, General Obligation Bonds, Series 2002A, 0.000%, 8/01/24 – FGIC Insured	No Opt. Call	AA-	588,924
40,965	Total California Colorado – 4.7%			33,164,466
1,400	Colorado Health Facilities Authority, Colorado, Revenue Bonds, Sisters of Charity of Leavenworth Health Services Corporation, Refunding Composite	100.00	AA-	1,599,122
5,885	Deal Series 2010B, 5.000%, 1/01/21 E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/34 – NPFG Insured	No Opt. Call	AA-	3,431,073
3,605	F-470 Public Highway Authority Colorado, Toll Revenue	9/20 at 67.94	AA-	2,164,658
4,000	Park Creek Metropolitan District, Colorado, Senior Property Tax Supported Revenue Bonds, Series 2009, 6.375%, 12/01/37 (Pre-refunded 12/01/19) – AGC	12/19 at 100.00	AA (6)	4,724,960
14,890	Insured Total Colorado Florida – 9.9%			11,919,813
1,605	Lakeland, Florida, Hospital System Revenue Bonds, Lakeland Regional Health, Series 2015, 5.000%, 11/15/45	11/24 at 100.00	A2	1,879,567
535		2/24 at 100.00	AA	631,632
9,500	Miami-Dade County, Florida, Aviation Revenue Bonds, Miami International Airport, Series 2009A, 5.500%, 10/01/41 (UB) (4) Miami-Dade County, Florida, General Obligation Bonds, Build Better Communities Program, Series 2009-B1:	10/19 at 100.00	A	10,704,220

2,500	6.000%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,759,900
2,000	5.625%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,193,600
2,850	Miami-Dade County, Florida, Special Obligation Bonds, Capital Asset Acquisition, Series 2007A, 5.000%, 4/01/21 – AMBAC Insured	4/17 at 100.00	AA-	2,932,764
660	Orange County Health Facilities Authority, Florida, Hospital Revenue Bonds, Orlando Health,	10/26 at 100.00	A	715,361
300	Inc., Series 2016B, 4.000%, 10/01/45 Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-2, 0.000%, 5/01/39 (5)	5/17 at 100.00	N/R	243,192
865	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-3, 0.000%, 5/01/40 (5)	5/19 at 100.00	N/R	524,891
375	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-4, 0.000%, 5/01/40 (5)	5/22 at 100.00	N/R	168,979
525	Tolomato Community Development District, Florida, Special Assessment Bonds, Hope Note, Series 2007-3, 6.450%, 5/01/23 (7)	5/18 at 100.00	N/R	5
45	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing ParcelSeries 2007-1. RMKT, 6.450%, 5/01/23 (7)	5/18 at 100.00	N/R	45,985
905	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2012A-1, 6.450%, 5/01/23	5/17 at 100.00	N/R	910,403
1,315	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-1, 0.000%, 5/01/40 (7)	5/18 at 100.00	N/R	825,360
805	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-2, 0.000%, 5/01/40 (7)	5/18 at 100.00	N/R	428,381
880	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-3, 6.610%, 5/01/40 (7)	5/18 at 100.00	N/R	9
25,665	Total Florida Georgia – 0.7%			24,964,249
430	Atlanta, Georgia, Tax Allocation Bonds, Beltline Project Series 2008A. Remarketed, 7.500%, 1/01/31	1/19 at 100.00	A2	491,137
1,000	Clayton County Development Authority, Georgia, Special Facilities Revenue Bonds, Delta Air Lines, Inc. Project, Series 2009A, 8.750%, 6/01/29	6/20 at 100.00	Baa3	1,232,820
1,430	Total Georgia Illinois – 9.6%			1,723,957
1,260	Chicago, Illinois, General Airport Revenue Bonds, O'Hare International Airport, Third Lien Series 2008B, 5.000%, 1/01/20 – AGM Insured	1/17 at 100.00	AA	1,283,171

	Chicago, Illinois, General Obligation Bonds, City Colleges, Series 1999:			
470 3,000	0.000%, 1/01/33 – FGIC Insured 0.000%, 1/01/37 – FGIC Insured	No Opt. Call No Opt. Call		235,404 1,237,110
200	Chicago, Illinois, General Obligation Bonds, Refunding Series 2005A, 5.000%, 1/01/17 – AGM Insured	10/16 at 100.00	AA	200,738
5,035	Illinois Finance Authority, Revenue Bonds, Northwestern Memorial Hospital, Series 2009A, 6.000%, 8/15/39	8/19 at 100.00	AA+	5,815,929
3,500	Illinois Finance Authority, Revenue Bonds, OSF Healthcare System, Series 2009A, 7.125%, 11/15/37 (Pre-refunded 5/15/19)	5/19 at 100.00	A (6)	4,127,095
5,000	Illinois Finance Authority, Revenue Bonds, Rush University Medical Center Obligated Group, Series 2009A, 7.250%, 11/01/38 (Pre-refunded 11/01/18)	11/18 at 100.00	Aaa	5,746,400
3,930	Illinois Finance Authority, Student Housing Revenue Bonds, Educational Advancement Fund Inc., Refunding Series 2007A, 5.250%, 5/01/34	5/17 at 100.00	BBB+	3,993,312
615	University of Illinois, Health Services Facilities System Revenue Bonds, Series 2013, 6.000%, 10/01/42	10/23 at 100.00	A	750,761
745	Will County Community Unit School District 201U, Crete-Monee, Illinois, General Obligation Bonds, Capital Appreciation Series 2004, 0.000%, 11/01/23 –	No Opt. Call	AA-	621,293
300	Bonds, Capital Appreciation Series 2004, 0.000%, 11/01/23 –	No Opt. Call	AA- (6)	269,268
24,055	NPFG Insured (ETM) Total Illinois Indiana – 6.7%			24,280,481
5,000	Indiana Finance Authority, Hospital Revenue Bonds, Deaconess Hospital Obligated Group, Series	3/19 at 100.00		