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

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 811-22253

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)	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, Citigroup Prepay Contracts, Series 2009A, 6.500%, 11/01/39	No Opt. Call	A	671,049
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%, 8/01/35	No Opt. Call	AA-	593,136
12,955	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 Ysidro School District, San Diego County, California, General Obligation Bonds, Refunding Series 2015, 0.000%, 8/01/44	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 Deal Series 2010B, 5.000%, 1/01/21	100.00	AA-	1,599,122
5,885	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	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 9/01/27 – NPFG Insured	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 Insured	12/19 at 100.00	AA (6)	4,724,960
14,890	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	Miami Beach Redevelopment Agency, Florida, Tax Increment Revenue Bonds, City Center/Historic Convention Village, Series 2015A, 5.000%, 2/01/44 – AGM Insured	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	5/18 at 100.00	N/R	5
45	2007-3, 6.450%, 5/01/23 (7) 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	0.000%, 1/01/33 – FGIC Insured	No Opt. Call	AA-	235,404
3,000	0.000%, 1/01/37 – FGIC Insured	No Opt. Call	AA-	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%,	5/19 at 100.00	A (6)	4,127,095
5,000	11/15/37 (Pre-refunded 5/15/19) Illinois Finance Authority, Revenue Bonds, Rush University Medical Center Obligated Group, Series 2000 A 7 250% 11/01/28 (Pre-refunded 11/01/18)	11/18 at 100.00	Aaa	5,746,400
3,930	Series 2009A, 7.250%, 11/01/38 (Pre-refunded 11/01/18) 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	NPFG Insured 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- (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 2009A, 6.750%, 3/01/39 (Pre-refunded 3/01/19)	3/19 at 100.00	AA- (6)	5,780,600
3,600	Indiana Health and Educational Facilities Financing Authority, Revenue Bonds, Sisters of Saint Francis Health Services Inc, Series 2006E, 5.250%, 5/15/41	5/18 at 100.00	Aa3 (6)	3,895,056
1,770	(Pre-refunded 5/01/18) – AGM Insured Indiana Health Facility Financing Authority, Revenue Bonds, Community Foundation of Northwest Indiana, Series 2007, 5.500%, 3/01/37	3/17 at 100.00	A+	1,812,392
1,880	Indiana Health Facility Financing Authority, Revenue Bonds, Community Foundation of Northwest	3/17 at 100.00	N/R (6)	1,933,900
2,000	Indiana, Series 2007, 5.500%, 3/01/37 (Pre-refunded 3/01/17) Indiana Municipal Power Agency, Power Supply System Revenue Bonds, Series 2009B, 6.000%, 1/01/39 (Pre-refunded 1/01/19)	1/19 at 100.00	A+ (6)	2,256,980
1,500	Indianapolis Local Public Improvement Bond Bank, Indiana, Series 1999E, 0.000%, 2/01/25 – AMBAC Insured	No Opt. Call	AA	1,255,005

15,750	Total Indiana Iowa – 1.8%			16,933,933
1,545	Iowa Finance Authority, Iowa, Midwestern Disaster Area Revenue Bonds, Iowa Fertilizer Company Project, Series 2013, 5.500%, 12/01/22	12/18 at 100.00	B+	1,608,051
3,075	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C, 5.375%, 6/01/38	10/16 at 100.00	B+	3,075,215
4,620	Total Iowa Kansas – 0.0%			4,683,266
5	Wyandotte County-Kansas City Unified Government, Kansas, Sales Tax Special Obligation Capital Appreciation Revenue Bonds Redevelopment Project Area B – Major Multi-Sport Athletic Complex Project, Subordinate Lien Series 2010B, 0.000%, 6/01/21 Kentucky – 0.5%	No Opt. Call	A-	3,820
1,150	Kenton County Airport Board, Kentucky, Airport Revenue Bonds, Cincinnati/Northern Kentucky International Airport, Series 2016, 5.000%, 1/01/29 Louisiana – 6.5%	1/26 at 100.00	A+	1,408,394
5,000	Louisiana Citizens Property Insurance Corporation, Assessment Revenue Bonds, Series 2006C-3, 6.125%, 6/01/25 (Pre-refunded 6/01/18) – AGC Insured Louisiana Public Facilities Authority, Revenue Bonds, Ochsner Clinic Foundation Project, Series 2007A:	6/18 at 100.00	AA (6)	5,506,500
5,075	5.375%, 5/15/43	5/17 at 100.00	A-	5,235,573
200	5.500%, 5/15/47	5/17 at 100.00	A-	206,484
	Louisiana Public Facilities Authority, Revenue Bonds, Ochsner Clinic Foundation Project, Series 2007A:			
1,925	5.375%, 5/15/43 (Pre-refunded 5/15/17)	5/17 at 100.00	N/R (6)	1,999,844
75	5.500%, 5/15/47 (Pre-refunded 5/15/17)	5/17 at 100.00	N/R (6)	77,990
3,255	St John Baptist Parish, Louisiana, Revenue Bonds, Marathon Oil Corporation, Series 2007A,	6/17 at 100.00	BBB	3,329,572
15,530	5.125%, 6/01/37 Total Louisiana Maine – 1.8%			16,355,963
3,335	Maine Health and Higher Educational Facilities Authority, Revenue Bonds, Bowdoin College, Tender Option Bond Trust 2016-XL0014, 12.725%, 7/01/39 (IF) (4) Maryland – 0.2% Baltimore, Maryland, Senior Lien Convention Center Hotel Revenue Bonds, Series 2006A:	7/19 at 100.00	Aa2	4,476,470
180	5.250%, 9/01/26 – SYNCORA GTY Insured	9/16 at 100.00	Ba1	180,562

275	5.250%, 9/01/27 – SYNCORA GTY Insured	9/16 at 100.00	Ba1	275,858
455	Total Maryland Massachusetts – 0.5%			456,420
1,000	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Tender Option Bond Trust 2015-XF2181. Formerly Tender Option Bond Trust 2989, 12.809%, 8/01/38 (IF)	8/19 at 100.00	AAA	1,382,570
50	Michigan – 1.8% Detroit, Michigan, Sewer Disposal System Revenue Bonds, Second Lien, Series 2006B, 5.000%, 7/01/33 – NPFG Insured	10/16 at 100.00	AA-	50,175
3,100	Detroit, Michigan, Water Supply System Senior Lien Revenue Refunding Bonds, Series 2006D, 5.000%, 7/01/32 – AGM Insured	10/16 at 100.00	AA	3,112,586
2,085	Michigan State Building Authority, Revenue Bonds, Refunding Series 2006IA, 0.000%, 10/15/26 – AGM Insured	10/16 at 61.33	AA	1,275,937
5,235	Total Michigan Missouri – 1.0%			4,438,698
2,515	Missouri Highways and Transportation Commission, State Road Revenue Bonds, Refunding Senior Lien Series 2010C, 5.000%, 2/01/17	No Opt. Call	AAA	2,573,197
1,000	Nevada – 4.0% Clark County Water Reclamation District, Nevada, General Obligation Water Bonds, Series 2009A, 5.250%, 7/01/34	7/19 at 100.00	AAA	1,126,880
5,415	Las Vegas Redevelopment Agency, Nevada, Tax Increment Revenue Bonds, Series 2009A, 8.000%, 6/15/30 (Pre-refunded 6/15/19)	6/19 at 100.00	BBB+ (6)	6,518,198
2,000	Las Vegas Valley Water District, Nevada, General Obligation Bonds, Refunding Series 2015, 5.000%, 6/01/39	12/24 at 100.00	Aa1	2,427,860
8,415	Total Nevada New Jersey – 5.5%			10,072,938
935	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2005N-1, 5.500%, 9/01/27 – FGIC Insured	No Opt. Call	AA-	1,177,922
1,000	New Jersey Economic Development Authority, School Facilities Construction Financing Program Bonds, Refunding Series 2011GG, 5.000%, 9/01/22	3/21 at 100.00	A-	1,106,350
1,250	New Jersey Economic Development Authority, School Facility Construction Bonds, Series 2005K, 5.500%, 12/15/19 – AMBAC Insured New Jersey Educational Facilities Authority, Revenue Bonds, University of Medicine and Dentistry of New Jersey, Refunding Series 2009B:	No Opt. Call	A-	1,392,750
2,135	7.125%, 12/01/23 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	2,516,012
3,000	7.500%, 12/01/32 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	3,566,910

5,020	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital	No Opt. Call	A-	2,699,555
255	Appreciation Series 2010A, 0.000%, 12/15/31 New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2015AA, 5.250%, 6/15/41	6/25 at 100.00	A-	289,833
1,000	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 5.000%, 6/01/29	06/17 at 100.00	В	1,010,820
14,595	Total New Jersey New York – 3.7%			13,760,152
2,845	Hudson Yards Infrastructure Corporation, New York, Revenue Bonds, Series 2006A, 5.000%, 2/15/47	2/17 at 100.00	A	2,909,610
1,450	New York City Municipal Water Finance Authority, New York, Water and Sewer System Revenue Bonds, Second Generation Resolution, Series 2009EE-2, 5.250% 6/15/40	No Opt. Call	AA+	1,631,830
3,000	New York Liberty Development Corporation, Revenue Bonds, Goldman Sachs Headquarters Issue, Series 2007, 5.500%, 10/01/37	No Opt. Call	A	4,180,590
430	Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air	12/20 at 100.00	Baa1	506,815
7,725	Terminal LLC Project, Eighth Series 2010, 6.000%, 12/01/42 Total New York Ohio – 5.5%			9,228,845
5,000	American Municipal Power Ohio Inc., Prairie State Energy Campus Project Revenue Bonds, Series 2009A, 5.750%, 2/15/39 (Pre-refunded 2/15/19) – AGC Insured Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2:	2/19 at 100.00	AA (6)	5,641,750
2,115	5.875%, 6/01/30	6/17 at 100.00	В-	2,115,212
5,910	6.500%, 6/01/47	6/17 at 100.00	В-	6,043,448
13,025	Total Ohio Oklahoma – 0.9%			13,800,410
2,150	Norman Regional Hospital Authority, Oklahoma, Hospital Revenue Bonds, Series 2007, 5.125%, 9/01/37 Rhode Island – 1.4%	9/17 at 100.00	BBB	2,209,039
3,000	Rhode Island Health and Educational Building Corporation, Hospital Financing Revenue Bonds, Lifespan Obligated Group Issue, Series 2009A, 7.000%, 5/15/39 South Carolina – 1.5%	5/19 at 100.00	BBB+	3,447,570
5,435	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 2004A-2, 0.000%, 1/01/29 – AMBAC Insured	No Opt. Call	AA	3,921,407
1,855	Texas – 5.8% Grand Parkway Transportation Corporation, Texas, System Toll Revenue Bonds, First Tier Series	10/23 at 100.00	BBB+	2,158,682

915	2013A, 5.500%, 4/01/53 North Texas Tollway Authority, System Revenue Bonds, Refunding First Tier, Series 2015B, 5.000%, 1/01/45	1/25 at 100.00	A1	1,092,336
5,435	North Texas Tollway Authority, System Revenue Bonds, Refunding Second Tier, Series 2008F, 5.750%, 1/01/38 (Pre-refunded 1/01/18)	1/18 at 100.00	A2 (6)	5,832,788
195	Tarrant County Cultural Education Facilities Finance Corporation, Texas, Hospital Revenue Bonds, Scott & White Healthcare Project, Series 2016A, 4.000% 11/15/42	5/26 at 100.00	AA-	213,691
1,500	Texas Municipal Gas Acquisition and Supply Corporation III, Gas Supply Revenue Bonds, Series 2012, 5.000%, 12/15/32	No Opt. Call	A3	1,700,850
2,000	Wichita Falls Independent School District, Wichita County, Texas, General Obligation Bonds, Series 2007, 5.000%, 2/01/23 (Pre-refunded 2/01/17) Wylie Independent School District, Collin County, Texas, General Obligation Bonds, School Building Series 2010:	2/17 at 100.00	AAA	2,045,760
2,000	0.000%, 8/15/33	No Opt. Call	AAA	