

Nuveen AMT-Free Municipal Value Fund
Form N-Q
September 29, 2017

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)

Gifford R. Zimmerman

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: October 31

Date of reporting period: July 31, 2017

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

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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

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Nuveen AMT-Free Municipal Value Fund

Portfolio of Investments July 31, 2017 (Unaudited)

Principal

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 104.3%			
	MUNICIPAL BONDS – 104.3%			
	Alaska – 0.3%			
	Northern Tobacco Securitization Corporation, Alaska, Tobacco Settlement Asset-Backed Bonds, Series 2006A:			
\$ 505	4.625%, 6/01/23	10/17 at 100.00	Ba2	\$506,838
350	5.000%, 6/01/46	10/17 at 100.00	B3	334,845
855	Total Alaska			841,683
	Arizona – 3.2%			
	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	4,338,520
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+	3,675,498
7,045	Total Arizona			8,014,018
	California – 18.8%			
1,500	Alameda Corridor Transportation Authority, California, Revenue Bonds, Refunding Second Subordinate Lien Series 2016B, 5.000%, 10/01/36	10/26 at 100.00	BBB+	1,711,050
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	1,085,627
2,500	California State Public Works Board, Lease Revenue Bonds, Department of General Services Buildings 8 & 9, Series 2009A, 6.250%, 4/01/34 (Pre-refunded 4/01/19)	4/19 at 100.00	Aaa	2,722,250
500	California State, General Obligation Bonds, Tender Option Bond Trust 2016-XG0039, 17.370%, 3/01/40 – AGM Insured (IF) (4)	3/20 at 100.00	AA	713,340
10,000	Eastern Municipal Water District Financing Authority, California, Water and Wastewater Revenue Bonds, Series 2017D, 5.000%, 7/01/47 (UB) (4)	7/27 at 100.00	AA+	11,859,900
4,155	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.000%, 6/01/33	10/17 at 100.00	B+	4,155,000
450	M-S-R Energy Authority, California, Gas Revenue Bonds, Citigroup Prepay Contracts, Series 2009A, 6.500%, 11/01/39	No Opt. Call	A	643,342
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	12,287,328
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-	530,522

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2,500	San Diego County Regional Airport Authority, California, Airport Revenue Bonds, Subordinate Series 2017A, 5.000%, 7/01/47 (WI/DD, Settling 8/03/17)	7/27 at 100.00	A	2,931,375
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	6,672,732
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	1,442,882
700	Victor Elementary School District, San Bernardino County, California, General Obligation Bonds, Series 2002A, 0.000%, 8/01/24 - FGIC Insured	No Opt. Call	Aa3	605,955
53,405	Total California			47,361,303

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado – 5.2%			
\$ 1,500	Denver Convention Center Hotel Authority, Colorado, Revenue Bonds, Convention Center Hotel, Refunding Senior Lien Series 2016, 5.000%, 12/01/36	12/26 at 100.00	Baa2	\$1,702,695
5,885	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/34 – NPMG Insured	No Opt. Call	A	3,145,886
3,605	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 9/01/27 – NPMG Insured	9/20 at 67.94	A	2,313,869
4,000	Park Creek Metropolitan District, Colorado, Senior Limited Property Tax Supported Revenue Bonds, Refunding Series 2009, 6.375%, 12/01/37 (Pre-refunded 12/01/19) – AGC Insured	12/19 at 100.00	AA (6)	4,491,920
1,000	Public Authority for Colorado Energy, Natural Gas Purchase Revenue Bonds, Colorado Springs Utilities, Series 2008, 6.500%, 11/15/38	No Opt. Call	A	1,422,970
15,990	Total Colorado			13,077,340
	Florida – 8.2%			
1,605	Lakeland, Florida, Hospital System Revenue Bonds, Lakeland Regional Health, Series 2015, 5.000%, 11/15/45	11/24 at 100.00	A2	1,787,007
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	603,657
9,500	Miami-Dade County, Florida, Aviation Revenue Bonds, Miami International Airport, Series 2009A, 5.500%, 10/01/41 (UB) (4)	10/19 at 100.00	A	10,327,165
2,000	Miami-Dade County, Florida, General Obligation Bonds, Build Better Communities Program, Series 2009-B1: 5.625%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,086,520
2,500	6.000%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,616,700
300	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-2, 6.610%, 5/01/39	10/17 at 100.00	N/R	300,006
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	518,896
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	166,669
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 Parcel Series 2007-1. RMKT, 6.450%, 5/01/23	5/18 at 100.00	N/R	45,205
905	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2012A-1, 6.450%, 5/01/23	5/18 at 100.00	N/R	898,004
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	813,946
805		5/18 at 100.00	N/R	419,163

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	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-2, 0.000%, 5/01/40 (7)			
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
22,155	Total Florida			20,582,952
	Georgia – 3.0%			
415	Atlanta, Georgia, Tax Allocation Bonds, Beltline Project Series 2008A. Remarketed, 7.500%, 1/01/31 (Pre-refunded 1/01/19)	1/19 at 100.00	A2 (6)	449,872

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Georgia (continued)			
\$ 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	\$1,170,380
2,000	Gainesville and Hall County Hospital Authority, Georgia, Revenue Anticipation Certificates, Northeast Georgia Health Services Inc., Series 2017B, 5.500%, 2/15/42	2/27 at 100.00	AA	2,434,320
2,000	Municipal Electric Authority of Georgia, Project One Revenue Bonds, Subordinate Lien Series 2015A, 5.000%, 1/01/35	1/25 at 100.00	A+	2,242,260
1,000	Private Colleges and Universities Authority, Georgia, Revenue Bonds, Emory University, Refunding Series 2016A, 5.000%, 10/01/46	10/26 at 100.00	AA+	1,166,620
6,415	Total Georgia			7,463,452
	Illinois – 10.0%			
2,000	Chicago Board of Education, Illinois, General Obligation Bonds, Dedicated Capital Improvement Revenues, Series 2016, 6.000%, 4/01/46	4/27 at 100.00	A	2,171,640
	Chicago, Illinois, General Obligation Bonds, City Colleges, Series 1999:			
470	0.000%, 1/01/33 – FGIC Insured	No Opt. Call	A	224,514
3,000	0.000%, 1/01/37 – FGIC Insured	No Opt. Call	A	1,169,730
5,035	Illinois Finance Authority, Revenue Bonds, Northwestern Memorial Hospital, Series 2009A, 6.000%, 8/15/39	8/19 at 100.00	AA+	5,509,599
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	A2 (6)	3,879,435
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	5,392,650
525	Illinois State, General Obligation Bonds, October Series 2016, 5.000%, 2/01/29	2/27 at 100.00	BBB	568,234
11,420	Metropolitan Pier and Exposition Authority, Illinois, Revenue Bonds, McCormick Place Expansion Project, Series 2002A, 0.000%, 12/15/37 – NPFQ Insured	No Opt. Call	A	4,686,654
615	University of Illinois, Health Services Facilities System Revenue Bonds, Series 2013, 6.000%, 10/01/42	10/23 at 100.00	A-	708,787
	Will County Community Unit School District 201U, Crete-Monee, Illinois, General Obligation Bonds, Capital Appreciation Series 2004:			
300	0.000%, 11/01/23 – NPFQ Insured (ETM)	No Opt. Call	A (6)	270,072
745	0.000%, 11/01/23 – NPFQ Insured	No Opt. Call	A+	637,117
32,610	Total Illinois			25,218,432
	Indiana – 4.2%			
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	A+ (6)	5,455,050
1,600	Indiana Health and Educational Facilities Financing Authority, Revenue Bonds, Sisters of Saint Francis Health Services Inc.,	5/18 at 100.00	Aa3 (6)	1,652,400

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	Series 2006E, 5.250%, 5/15/41 (Pre-refunded 5/01/18) – AGM Insured			
2,000	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)	2,142,500
1,500	Indianapolis Local Public Improvement Bond Bank, Indiana, Series 1999E, 0.000%, 2/01/25 – AMBAC Insured	No Opt. Call	AA	1,240,215
10,100	Total Indiana			10,490,165
	Iowa – 1.8%			
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	1,579,670

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Iowa (continued)			
\$ 3,075	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C, 5.375%, 6/01/38	10/17 at 100.00	B+	\$ 3,059,502
4,620	Total Iowa			4,639,172
	Kentucky – 0.5%			
1,150	Kenton County Airport Board, Kentucky, Airport Revenue Bonds, Cincinnati/Northern Kentucky International Airport, Series 2016, 5.000%, 1/01/29	1/26 at 100.00	A+	1,335,242
	Louisiana – 3.4%			
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	6/18 at 100.00	AA (6)	5,218,900
3,255	St John Baptist Parish, Louisiana, Revenue Bonds, Marathon Oil Corporation, Series 2007A, 5.125%, 6/01/37	9/17 at 100.00	BBB	3,261,054
8,255	Total Louisiana			8,479,954
	Maine – 1.6%			
3,335	Maine Health and Higher Educational Facilities Authority, Revenue Bonds, Bowdoin College, Tender Option Bond Trust, Series 2016-XL0014, 12.026%, 7/01/39 (IF) (4)	7/19 at 100.00	Aa2	4,015,373
	Maryland – 2.2%			
5,000	Maryland Health and Higher Educational Facilities Authority, Revenue Bonds, MedStar Health Issue, Series 2017A, 5.000%, 5/15/45	5/27 at 100.00	A	5,679,000
	Massachusetts – 0.5%			
1,000	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Tender Option Bond Trust, Series 2015-XF2181, 12.125%, 8/01/38 (IF) (4)	8/19 at 100.00	AAA	1,224,400
	Minnesota – 0.5%			
1,145	Rochester, Minnesota, Electric Utility Revenue Bonds, Refunding Series 2017A, 5.000%, 12/01/47	12/26 at 100.00	Aa3	1,336,765
	Nebraska – 0.2%			
500	Central Plains Energy Project, Nebraska, Gas Project 3 Revenue Bonds, Series 2012, 5.000%, 9/01/42	9/22 at 100.00	A	539,465
	Nevada – 3.3%			
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)	6,111,748
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	2,290,500
7,415	Total Nevada			8,402,248
	New Jersey – 5.2%			
935	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2005N-1, 5.500%, 9/01/27 – FGIC Insured	No Opt. Call	A	1,105,338
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-	1,062,480

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1,250	New Jersey Economic Development Authority, School Facility Construction Bonds, Series 2005K, 5.500%, 12/15/19 – AMBAC No Opt. Call Insured	A-	1,340,575
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New Jersey (continued)			
	New Jersey Educational Facilities Authority, Revenue Bonds, University of Medicine and Dentistry of New Jersey, Refunding Series 2009B:			
\$ 2,135	7.125%, 12/01/23 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	\$2,374,291
3,000	7.500%, 12/01/32 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	3,356,610
5,020	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/31	No Opt. Call	A-	2,503,474
255	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2015AA, 5.250%, 6/15/41	6/25 at 100.00	A-	270,933
1,000	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 5.000%, 6/01/29	10/17 at 100.00	BBB-	995,780
14,595	Total New Jersey			13,009,481
	New York – 3.0%			
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	6/19 at 100.00	AA+	1,558,286
1,500	New York Liberty Development Corporation, New York, Liberty Revenue Bonds, 4 World Trade Center Project, Series 2011, 5.750%, 11/15/51	11/21 at 100.00	A+	1,733,055
3,000	New York Liberty Development Corporation, Revenue Bonds, Goldman Sachs Headquarters Issue, Series 2007, 5.500%, 10/01/37	No Opt. Call	A	3,921,750
430	Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air Terminal LLC Project, Eighth Series 2010, 6.000%, 12/01/42	12/20 at 100.00	Baa1	482,666
6,380	Total New York			7,695,757
	North Carolina – 1.3%			
2,000	North Carolina Capital Facilities Finance Agency, Revenue Bonds, Duke University Project, Refunding Series 2016B, 5.000%, 10/01/44	10/26 at 100.00	AA+	2,359,680
700	North Carolina Turnpike Authority, Triangle Expressway System Revenue Bonds, Refunding Senior Lien Series 2017, 5.000%, 1/01/32	1/27 at 100.00	BBB	811,293
2,700	Total North Carolina			3,170,973
	Ohio – 5.8%			
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	2/19 at 100.00	AA (6)	5,369,350
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2:			
2,115	5.875%, 6/01/30	10/17 at 100.00	B-	2,005,655
5,910	6.500%, 6/01/47	10/17 at 100.00	B-	5,859,292
1,305		6/27 at 100.00	AA-	1,345,677

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	Franklin County, Ohio, Revenue Bonds, Trinity Health Credit Group, Series 2017OH, 4.000%, 12/01/46			
14,330	Total Ohio			14,579,974
	Oklahoma – 0.9%			
2,150	Norman Regional Hospital Authority, Oklahoma, Hospital Revenue Bonds, Series 2007, 5.125%, 9/01/37 (Pre-refunded 9/01/17)	9/17 at 100.00	BBB+ (6)	2,157,654
	Rhode Island – 1.3%			
3,000	Rhode Island Health and Educational Building Corporation, Hospital Financing Revenue Bonds, Lifespan Obligated Group Issue, Series 2009A, 7.000%, 5/15/39 (Pre-refunded 5/15/19)	5/19 at 100.00	Aaa	3,320,700

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
\$ 5,435	South Carolina – 1.5% Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 2004A-2, 0.000%, 1/01/29 – AMBAC Insured	No Opt. Call	AA	\$ 3,838,306
2,000	Texas – 8.2% Austin, Texas, Electric Utility System Revenue Bonds, Refunding Series 2017, 5.000%, 11/15/35	11/26 at 100.00	AA	2,371,100
1,855	Grand Parkway Transportation Corporation, Texas, System Toll Revenue Bonds, First Tier Series 2013A, 5.500%, 4/01/53	10/23 at 100.00	BBB+	2,119,282
3,000	Houston, Texas, Hotel Occupancy Tax and Special Revenue Bonds, Convention and Entertainment Project, Series 2001B: 0.000%, 9/01/32 – AMBAC Insured	No Opt. Call	A2	1,741,110
7,935	0.000%, 9/01/33 – AMBAC Insured	No Opt. Call	A2	4,358,695
915	North Texas Tollway Authority, System Revenue Bonds, Refunding First Tier, Series 2015B, 5.000%, 1/01/45	1/25 at 100.00	A1	1,029,055
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)	5,545,820
250	Tarrant County Cultural Education Facilities Finance Corporation, Texas, Revenue Bonds, Texas Health Resources System, Series 2016A, 5.000%, 2/15/41	8/26 at 100.00	AA	289,325
1,500	Texas Municipal Gas Acquisition and Supply Corporation III, Gas Supply Revenue Bonds, Series 2012, 5.000%, 12/15/32	12/22 at 100.00	A3	1,649,340
2,000	Wylie Independent School District, Collin County, Texas, General Obligation Bonds, School Building Series 2010: 0.000%, 8/15/33	No Opt. Call	AAA	946,460
1,945	0.000%, 8/15/38	No Opt. Call	AAA	691,058
26,835	Total Texas			20,741,245
1,405	Utah – 0.7% Salt Lake City, Utah, Airport Revenue Bonds, International Airport Series 2017B, 5.000%, 7/01/42	7/27 at 100.00	A+	1,650,383
1,160	Virginia – 2.4% Chesapeake Bay Bridge and Tunnel District, Virginia, General Resolution Revenue Bonds, First Tier Series 2016, 5.000%, 7/01/51	7/26 at 100.00	BBB	1,302,158
1,400	Chesapeake, Virginia, Transportation System Senior Toll Road Revenue Bonds, Capital Appreciation Series 2012B, 0.000%, 7/15/40 (5)	7/28 at 100.00	BBB	1,149,344
1,500	Virginia Housing Development Authority, Rental Housing Bonds, Series 2016B, 3.350%, 5/01/36	5/25 at 100.00	AA+	1,516,320
2,000	Washington County Industrial Development Authority, Virginia, Hospital Revenue Bonds, Mountain States Health Alliance, Series 2009C, 7.750%, 7/01/38	1/19 at 100.00	BBB+	2,147,520
6,060	Total Virginia			6,115,342
3,330	Washington – 0.9% Chelan County Public Utility District 1, Washington, Columbia River-Rock Island Hydro-Electric System Revenue Refunding	No Opt. Call	AA+	2,361,669

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	West Virginia – 0.7%			
\$ 1,500	West Virginia Hospital Finance Authority, Hospital Revenue Bonds, West Virginia United Health System Obligated Group, Refunding & Improvement Series 2013A, 5.500%, 6/01/44	6/23 at 100.00	A	\$ 1,698,390
	Wisconsin – 5.5%			
1,250	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Ascension Health Alliance Senior Credit Group, Series 2016A, 4.000%, 11/15/46	5/26 at 100.00	AA+	1,279,750
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Marshfield Clinic, Series 2012B, 5.000%, 2/15/27	2/22 at 100.00	A-	1,105,220
1,605	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, ProHealth Care, Inc. Obligated Group, Series 2009, 6.625%, 2/15/39 (Pre-refunded 2/15/19)	2/19 at 100.00	N/R (6)	1,744,073
9,000	Wisconsin State, General Fund Annual Appropriation Revenue Bonds, Refunding Series 2009A, 6.000%, 5/01/36 (Pre-refunded 5/01/19)	5/19 at 100.00	AA- (6)	9,791,460
12,855	Total Wisconsin			13,920,503
\$ 281,570	Total Long-Term Investments (cost \$233,590,281)			262,961,341
	Floating Rate Obligations – (6.0)%			(15,125,000)
	Other Assets Less Liabilities – 1.7%			4,225,844
	Net Assets – 100%			\$ 252,062,185

Fair Value Measurements

Fair value is defined as the price that would be received upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Prices are determined using 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 risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				
Municipal Bonds	\$ —	\$262,961,341	\$ —	\$262,961,341

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,

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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. As of July 31, 2017, the cost of investments was \$217,248,501.

Gross unrealized appreciation and gross unrealized depreciation of investments as of July 31, 2017, were as follows:

Gross unrealized:

Appreciation	\$31,026,890
Depreciation	(439,050)
Net unrealized appreciation (depreciation) of investments	\$30,587,840

- (1) All percentages shown in the Portfolio of Investments are based on net assets.
Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption.
- (2) There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
For financial reporting purposes, the ratings disclosed are the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. This treatment of split-rated securities may differ from that used for other purposes, such as for Fund investment policies. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.
- (3) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (4) Step-up coupon. The rate shown is the coupon as of the end of the reporting period.
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities, which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
- (5) As of or subsequent to, the end of the reporting period, this security is non-income producing. Non-income producing security, in the case of a fixed-income security, generally denotes that the issuer has (1) defaulted on the payment of principal or interest, (2) is under the protection of the Federal Bankruptcy Court or (3) the Fund's Adviser has concluded that the issue is not likely to meet its future interest payment obligations and has ceased accruing additional income on the Fund's records.
- (6) (ETM) Escrowed to maturity.
- (7) (IF) Inverse floating rate investment.
- (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.
- (WI/DD) Investment, or portion of investment, purchased on a when-issued or delayed delivery basis.

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 AMT-Free Municipal Value Fund

By (Signature and Title) /s/ Gifford R. Zimmerman

Gifford R. Zimmerman
Vice President and Secretary

Date: September 29, 2017

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/ Cedric H. Antosiewicz

Cedric H. Antosiewicz
Chief Administrative Officer (principal executive officer)

Date: September 29, 2017

By (Signature and Title) /s/ Stephen D. Foy

Stephen D. Foy
Vice President and Controller (principal financial officer)

Date: September 29, 2017