

Nuveen AMT-Free Municipal Value Fund
Form N-Q
March 29, 2018

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: January 31, 2018

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 January 31, 2018 (Unaudited)

Principal

Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 110.0%			
	MUNICIPAL BONDS – 110.0%			
	Alaska – 0.3%			
	Northern Tobacco Securitization Corporation, Alaska, Tobacco Settlement Asset-Backed Bonds, Series 2006A:			
\$ 500	4.625%, 6/01/23	4/18 at 100.00	Ba2	\$514,310
350	5.000%, 6/01/46	3/18 at 100.00	B3	343,217
850	Total Alaska			857,527
	Arizona – 3.1%			
	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	4,210,000
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+	3,635,761
7,045	Total Arizona			7,845,761
	California – 18.5%			
	Alameda Corridor Transportation Authority, California, Revenue Bonds, Refunding Second Subordinate Lien Series 2016B, 5.000%, 10/01/36	10/26 at 100.00	BBB+	1,700,400
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	1,092,132
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	2,642,425
500	California State, General Obligation Bonds, Tender Option Bond Trust 2016-XG0039, 144A, 16.680%, 3/01/40 – AGM Insured (1B) (4)	2/20 at 100.00	AA	664,105
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+	11,656,200
4,155	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 5.000%, 6/01/33	3/18 at 100.00	B3	4,171,703
450	M-S-R Energy Authority, California, Gas Revenue Bonds, Citigroup Prepay Contracts, Series 2009A, 6.500%, 11/01/39	No Opt. Call	A	628,690
10,200	Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/38 – AGC Insured (5)	8/29 at 100.00	BB+	12,454,812
1,030	Poway Unified School District, San Diego County, California, General Obligation Bonds, School Facilities Improvement District	No Opt. Call	AA-	545,107

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	2007-1, Series 2011A, 0.000%, 8/01/35			
2,500	San Diego County Regional Airport Authority, California, Airport Revenue Bonds, Subordinate Series 2017A, 5.000%, 7/01/47	7/27 at 100.00	A	2,882,975
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	6,716,390
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	1,449,363
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	594,125
53,405	Total California			47,198,427

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Colorado – 5.6%			
	Denver Convention Center Hotel Authority, Colorado, Revenue Bonds, Convention Center Hotel, Refunding Senior Lien Series 2016:			
\$ 1,000	5.000%, 12/01/30	12/26 at 100.00	Baa2	\$1,155,780
1,500	5.000%, 12/01/36	12/26 at 100.00	Baa2	1,693,890
5,885	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/34 – NPFPG Insured	No Opt. Call	A-	3,310,548
3,605	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 9/01/27 – NPFPG Insured	9/20 at 67.94	A-	2,294,042
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)	4,348,400
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	1,383,760
16,990	Total Colorado			14,186,420
	Florida – 10.1%			
500	Gainesville, Florida, Utilities System Revenue Bonds, Series 2017A, 5.000%, 10/01/37	10/27 at 100.00	AA-	583,335
1,605	Lakeland, Florida, Hospital System Revenue Bonds, Lakeland Regional Health, Series 2015, 5.000%, 11/15/45	11/24 at 100.00	A2	1,758,358
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	A1	605,877
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	10,070,190
	Miami-Dade County, Florida, General Obligation Bonds, Build Better Communities Program, Series 2009-B1:			
2,000	5.625%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,035,900
2,500	6.000%, 7/01/38 (Pre-refunded 7/01/18)	7/18 at 100.00	AA (6)	2,548,725
3,650	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Refunding Series 2017B, 5.000%, 10/01/33	10/25 at 100.00	Aa3	4,197,573
300	Tolomato Community Development District, Florida, Special Assessment Bonds, Convertible, Capital Appreciation, Series 2012A-2, 6.610%, 5/01/39	4/18 at 100.00	N/R	299,943
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	807,322
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	293,422
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,	5/18 at 100.00	N/R	45,023

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	6.450%, 5/01/23				
870	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2012A-1, 6.450%, 5/01/23	5/18 at 100.00	N/R	870,252	
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	1,051,711	
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	530,036	

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Florida (continued)			
\$ 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
26,270	Total Florida			25,697,681
	Georgia – 2.9%			
400	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)	421,280
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	1,138,630
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	2,390,200
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	2,228,220
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+	1,154,860
6,400	Total Georgia			7,333,190
	Illinois – 12.3%			
2,000	Chicago Board of Education, Illinois, Dedicated Capital Improvement Tax Revenue Bonds, Series 2016, 6.000%, 4/01/46	4/27 at 100.00	A	2,362,320
	Chicago, Illinois, General Obligation Bonds, City Colleges, Series 1999:			
470	0.000%, 1/01/33 – FGIC Insured	No Opt. Call	BBB+	244,865
3,000	0.000%, 1/01/37 – FGIC Insured	No Opt. Call	BBB+	1,273,950
2,000	Cook County, Illinois, Sales Tax Revenue Bonds, Series 2017, 5.000%, 11/15/38	11/27 at 100.00	AAA	2,289,480
5,035	Illinois Finance Authority, Revenue Bonds, Northwestern Memorial Hospital, Series 2009A, 6.000%, 8/15/39 (Pre-refunded 8/15/19)	8/19 at 100.00	AA+ (6)	5,382,516
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)	3,752,070
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	5,217,300
3,500	Illinois Finance Authority, State of Illinois Clean Water Initiative Revolving Fund Revenue Bonds, Series 2017, 5.000%, 7/01/37	1/27 at 100.00	AAA	4,029,095
525	Illinois State, General Obligation Bonds, October Series 2016, 5.000%, 2/01/29	2/27 at 100.00	BBB	557,818
11,420	Metropolitan Pier and Exposition Authority, Illinois, Revenue Bonds, McCormick Place Expansion Project, Series 2002A, 0.000%, 12/15/37 – NPMFG Insured	No Opt. Call	Baa2	4,502,106
615	University of Illinois, Health Services Facilities System Revenue Bonds, Series 2013, 6.000%, 10/01/42	10/23 at 100.00	A-	702,502

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Will County Community Unit School District 201U,
 Crete-Monee, Illinois, General Obligation Bonds, Capital
 Appreciation Series 2004:

300	0.000%, 11/01/23 – NPMFG Insured (ETM)	No Opt. Call	Baa2 (6)	263,949
745	0.000%, 11/01/23 – NPMFG Insured	No Opt. Call	A+	623,923
38,110	Total Illinois Indiana – 4.0%			31,201,894
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)	5,284,150

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Indiana (continued)			
\$ 1,600	Indiana Health and Educational Facilities Financing Authority, Revenue Bonds, Sisters of Saint Francis Health Services Inc., Series 2006E, 5.250%, 5/15/41 (Pre-refunded 5/01/18) – AGM Insured	5/18 at 100.00	N/R (6)	\$1,615,344
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	A1 (6)	2,083,980
1,500	Indianapolis Local Public Improvement Bond Bank, Indiana, Series 1999E, 0.000%, 2/01/25 – AMBAC Insured	No Opt. Call	AA	1,238,205
10,100	Total Indiana			10,221,679
	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-	1,572,285
3,075	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C, 5.375%, 6/01/38	4/18 at 100.00	B2	3,083,179
4,620	Total Iowa			4,655,464
	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+	1,299,684
	Louisiana – 2.0%			
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)	5,080,050
	Maine – 1.5%			
3,335	Maine Health and Higher Educational Facilities Authority, Revenue Bonds, Bowdoin College, Tender Option Bond Trust 2016-XL0014, 144A, 11.503%, 7/01/39 (IF) (4)	7/19 at 100.00	Aa2	3,732,465
	Maryland – 3.7%			
	Baltimore, Maryland, Convention Center Hotel Revenue Bonds, Refunding Series 2017:			
1,000	5.000%, 9/01/32	9/27 at 100.00	BBB-	1,144,900
2,250	5.000%, 9/01/34	9/27 at 100.00	BBB-	2,558,160
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	5,598,400
8,250	Total Maryland			9,301,460
	Massachusetts – 0.4%			
1,000	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Tender Option Bond Trust 2015-XF2181, 144A, 11.220%, 8/01/38 (IF) (4)	8/19 at 100.00	AAA	1,137,930
	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	1,315,697
	Nebraska – 0.2%			
500		9/22 at 100.00	A	556,980

Central Plains Energy Project, Nebraska, Gas Project 3 Revenue
Bonds, Series 2012, 5.000%, 9/01/42

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Nevada – 3.2%			
\$ 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)	\$5,884,751
2,000	Las Vegas Valley Water District, Nevada, General Obligation Bonds, Refunding Series 2015, 5.000%, 6/01/39	12/24 at 100.00	AA	2,297,220
7,415	Total Nevada			8,181,971
	New Jersey – 5.1%			
935	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2005N-1, 5.500%, 9/01/27 – FGIC Insured	No Opt. Call	A-	1,101,075
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-	1,067,220
1,250	New Jersey Economic Development Authority, School Facility Construction Bonds, Series 2005K, 5.500%, 12/15/19 – AMBA Insured	No Opt. Call	A-	1,323,925
	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)	2,291,965
3,000	7.500%, 12/01/32 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	3,235,320
5,020	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/31	No Opt. Call	BBB+	2,767,476
255	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2015AA, 5.250%, 6/15/41	6/25 at 100.00	BBB+	275,328
1,000	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 5.000%, 6/01/29	6/18 at 100.00	B2	1,007,270
14,595	Total New Jersey			13,069,579
	New York – 4.8%			
4,000	Long Island Power Authority, New York, Electric System General Revenue Bonds, Series 2017, 5.000%, 9/01/42	9/27 at 100.00	A-	4,579,280
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+	1,519,759
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	1,694,700
3,000	New York Liberty Development Corporation, Revenue Bonds, Goldman Sachs Headquarters Issue, Series 2007, 5.500%, 10/01/37	No Opt. Call	A	3,882,750
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	BBB	475,335
10,380	Total New York			12,151,824

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	North Carolina – 1.2%			
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+	2,324,640
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	808,773
2,700	Total North Carolina			3,133,413
	Ohio – 5.1%			
3,500	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)	3,657,150

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Ohio (continued)			
	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2:			
\$ 2,115	5.875%, 6/01/30	3/18 at 100.00	Caa1	\$2,056,859
5,910	6.500%, 6/01/47	4/18 at 100.00	B-	5,909,586
1,305	Franklin County, Ohio, Revenue Bonds, Trinity Health Credit Group, Series 2017OH, 4.000%, 12/01/46	6/27 at 100.00	AA-	1,330,434
12,830	Total Ohio			12,954,029
	Rhode Island – 1.3%			
	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	3,211,290
3,000	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	3,778,032
5,435	Tennessee – 0.3%			
	Metropolitan Government of Nashville-Davidson County, Tennessee, Water and Sewerage Revenue Bonds, Green Series 2017A, 5.000%, 7/01/42	7/27 at 100.00	AA	702,502
605	Texas – 10.5%			
	Austin Community College District Public Facility Corporation, Texas, Lease Revenue Bonds, Highland Campus - Building 3000 Project, Series 2018A, 5.000%, 8/01/42 (WI/DD, Settling 2/06/18)	8/27 at 100.00	AA	1,139,380
1,000	Austin, Texas, Electric Utility System Revenue Bonds, Refunding Series 2017, 5.000%, 11/15/35	11/26 at 100.00	AA	2,332,040
2,000	Grand Parkway Transportation Corporation, Texas, System Toll Revenue Bonds, First Tier Series 2013A, 5.500%, 4/01/53	10/23 at 100.00	BBB+	2,101,029
1,855	Houston, Texas, Hotel Occupancy Tax and Special Revenue Bonds, Convention and Entertainment Project, Series 2001B:			
3,000	0.000%, 9/01/32 – AMBAC Insured	No Opt. Call	A2	1,710,660
7,935	0.000%, 9/01/33 – AMBAC Insured	No Opt. Call	A2	4,320,528
10,000	Katy Independent School District, Harris, Fort Bend and Waller Counties, Texas, General Obligation Bonds, School Building Series 2017, 4.000%, 2/15/47 (UB) (WI/DD, Settling 2/08/18)	2/27 at 100.00	AAA	10,439,600
915	North Texas Tollway Authority, System Revenue Bonds, Refunding First Tier, Series 2015B, 5.000%, 1/01/45	1/25 at 100.00	A	1,017,608
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	282,980
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	BBB	1,640,610
	Wylie Independent School District, Collin County, Texas, General Obligation Bonds, School Building Series 2010:			
2,000	0.000%, 8/15/33	No Opt. Call	AAA	946,780
1,945	0.000%, 8/15/38	No Opt. Call	AAA	692,731

32,400

Total Texas

26,623,946

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
\$ 1,405	Utah – 0.6% Salt Lake City, Utah, Airport Revenue Bonds, International Airport Series 2017B, 5.000%, 7/01/42	7/27 at 100.00	A2	\$ 1,612,814
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	1,297,495
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	1,196,720
1,500	Virginia Housing Development Authority, Rental Housing Bonds, Series 2016B, 3.350%, 5/01/36	5/25 at 100.00	AA+	1,505,715
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+	2,100,940
6,060	Total Virginia			6,100,870
3,330	Washington – 1.1% Chelan County Public Utility District 1, Washington, Columbia River-Rock Island Hydro-Electric System Revenue Refunding Bonds, Series 1997A, 0.000%, 6/01/29 – NCFG Insured	No Opt. Call	AA+	2,321,343
440	Washington Health Care Facilities Authority, Revenue Bonds, Virginia Mason Medical Center, Series 2017, 5.000%, 8/15/37	8/27 at 100.00	BBB	490,846
3,770	Total Washington			2,812,189
1,500	West Virginia – 0.7% 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	1,668,945
1,000	Wisconsin – 4.8% Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Marshfield Clinic, Series 2012B, 5.000%, 2/15/27	2/22 at 100.00	A-	1,090,980
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)	1,690,611
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	Aa2 (6)	9,509,850
11,605	Total Wisconsin			12,291,441
\$ 297,870	Total Long-Term Investments (cost \$256,050,117)			279,915,154
	Floating Rate Obligations – (9.1%)			(23,125,000)
	Other Assets Less Liabilities – (0.9%)			(2,293,423)
	Net Assets – 100%			\$ 254,496,731

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

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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	\$ —	\$279,915,154	\$ —	\$279,915,154

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.

The table below presents the cost and unrealized appreciation (depreciation) of the Fund's investment portfolio, as determined on a federal income tax basis, as of January 31, 2018.

Tax cost of investments	\$232,031,737
Gross unrealized:	
Appreciation	\$ 25,325,650
Depreciation	(567,277)
Net unrealized appreciation (depreciation) of investments	\$ 24,758,373

- (1) All percentages shown in the Portfolio of Investments are based on net assets.
- (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.
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 bond, a bond with a coupon that increases ("steps up"), usually at regular intervals, while the bond is outstanding. The rate shown is the coupon as of the end of the reporting period.
- (5) 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.
As of, or subsequent to, the end of the reporting period, this security is non-income producing. Non-income producing, 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) Investment is exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These
- (7) 144A investments may only be resold in transactions exempt from registration, which are normally those transactions with qualified institutional buyers.

ETM Escrowed to maturity.

IF

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Inverse floating rate security issued by a tender option bond (“TOB”) trust, the interest rate on which varies inversely with the Securities Industry Financial Markets Association (SIFMA) short-term rate, which resets weekly, or a similar short-term rate, and is reduced by the expenses related to the TOB trust.

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: March 29, 2018

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: March 29, 2018

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

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

Date: March 29, 2018