

Nuveen AMT-Free Municipal Value Fund
Form N-Q
September 28, 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: July 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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NUW

Nuveen AMT-Free Municipal Value Fund

Portfolio of Investments July 31, 2018

(Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 101.0%			
	MUNICIPAL BONDS – 101.0%			
	Alaska – 0.2%			
	Northern Tobacco Securitization Corporation, Alaska, Tobacco Settlement Asset-Backed Bonds, Series 2006A:			
\$ 140	4.625%, 6/01/23	9/18 at 100.00	Ba2	\$140,175
350	5.000%, 6/01/46	9/18 at 100.00	B3	352,033
490	Total Alaska			492,208
	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	4,103,160
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+	3,620,749
7,045	Total Arizona			7,723,909
	California – 12.8%			
1,790	Alameda Corridor Transportation Authority, California, Revenue Bonds, Refunding Second Subordinate Lien Series 2016B, 5.000%, 10/01/37	10/26 at 100.00	BBB+	2,002,061
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	1,120,227
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	2,583,350
500	California State, General Obligation Bonds, Tender Option Bond Trust 2016-XG0039, 17.070%, 3/01/40 – AGM Insured, 144A (IB)20	10/20 at 100.00	Aa3	616,705
540	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2018A-1, 5.000%, 6/01/47	6/22 at 100.00	N/R	554,915
450	M-S-R Energy Authority, California, Gas Revenue Bonds, Citigroup Prepay Contracts, Series 2009A, 6.500%, 11/01/39	No Opt. Call	A	636,737
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+	12,600,876
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-	548,660
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	2,854,850
12,955	San Ysidro School District, San Diego County, California, General Obligation Bonds, 1997 Election Series 2012G, 0.000%, 8/01/35 –	No Opt. Call	AA	6,674,546

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	AGM Insured			
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	1,468,288
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	599,893
40,080	Total California			32,261,108
1				

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NUW Nuveen AMT-Free Municipal Value Fund (continued)
 Portfolio of Investments July 31, 2018
 (Unaudited)

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	\$1,127,880
1,500	5.000%, 12/01/36	12/26 at 100.00	Baa2	1,654,455
5,885	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004A, 0.000%, 9/01/34 – NPFQ Insured	No Opt. Call	A	3,227,863
3,605	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 9/01/27 – NPFQ Insured	9/20 at 67.94	A	2,324,252
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)	4,250,880
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+	1,379,370
16,990	Total Colorado			13,964,700
	Florida – 7.9%			
500	Gainesville, Florida, Utilities System Revenue Bonds, Series 2017A, 5.000%, 10/01/37	10/27 at 100.00	AA-	579,585
1,605	Lakeland, Florida, Hospital System Revenue Bonds, Lakeland Regional Health, Series 2015, 5.000%, 11/15/45	11/24 at 100.00	A2	1,751,055
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	598,633
9,500	Miami-Dade County, Florida, Aviation Revenue Bonds, Miami International Airport, Series 2009A, 5.500%, 10/01/41 (Pre-refunded 10/01/19) (UB) (4)	10/19 at 100.00	A (6)	9,894,915
3,325	Miami-Dade County, Florida, Water and Sewer System Revenue Bonds, Refunding Series 2017B, 5.000%, 10/01/31	10/25 at 100.00	Aa3	3,803,667
510	Putnam County Development Authority, Florida, Pollution Control Revenue Bonds, Seminole Electric Cooperative, Inc. Project, Refunding Series 2018B, 5.000%, 3/15/42	5/28 at 100.00	A-	572,689
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	830,089
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	302,239
525	Tolomato Community Development District, Florida, Special Assessment Bonds, Hope Note, Series 2007-3, 6.450%, 5/01/23 (7)	10/18 at 100.00	N/R	5
40	Tolomato Community Development District, Florida, Special Assessment Bonds, Non Performing Parcel Series 2007-1 RMKT,	10/18 at 100.00	N/R	40,005

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	6.450%, 5/01/23			
1,315	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-1, 0.000%, 5/01/40 (7)	10/18 at 81.98	N/R	1,047,319
805	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-2, 0.000%, 5/01/40 (7)	10/18 at 67.45	N/R	527,492
880	Tolomato Community Development District, Florida, Special Assessment Bonds, Refunding Series 2015-3, 6.610%, 5/01/40 (7)	10/18 at 100.00	N/R	9
20,780	Total Florida			19,947,702
	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)	410,180
2				

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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	\$1,108,430
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	2,357,560
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	2,187,780
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+	1,141,500
6,400	Total Georgia			7,205,450
	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	2,340,620
	Chicago, Illinois, General Obligation Bonds, City Colleges, Series 1999:			
470	0.000%, 1/01/33 – FGIC Insured	No Opt. Call	BBB+	248,169
3,000	0.000%, 1/01/37 – FGIC Insured	No Opt. Call	BBB-	1,286,820
2,000	Cook County, Illinois, Sales Tax Revenue Bonds, Series 2017, 5.000%, 11/15/38	11/27 at 100.00	AAA	2,264,800
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)	5,268,121
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)	3,652,880
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	5,073,000
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	3,972,465
525	Illinois State, General Obligation Bonds, October Series 2016, 5.000%, 2/01/29	2/27 at 100.00	BBB-	561,335
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	4,679,117
615	University of Illinois, Health Services Facilities System Revenue Bonds, Series 2013, 6.000%, 10/01/42	10/23 at 100.00	A-	693,523
	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)	263,196
745	0.000%, 11/01/23 – NPMFG Insured	No Opt. Call	A+	641,534
38,110	Total Illinois			30,945,580
	Indiana – 3.4%			

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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)	5,153,750
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)	2,038,560
1,500	Indianapolis Local Public Improvement Bond Bank, Indiana, Series 1999E, 0.000%, 2/01/25 – AMBAC Insured	No Opt. Call	AA	1,263,360
8,500	Total Indiana			8,455,670
3				

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NUW Nuveen AMT-Free Municipal Value Fund (continued)
 Portfolio of Investments July 31, 2018
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Iowa – 1.9%			
\$ 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-	\$1,557,808
3,075	Iowa Tobacco Settlement Authority, Asset Backed Settlement Revenue Bonds, Series 2005C, 5.375%, 6/01/38	10/18 at 100.00	B2	3,108,271
4,620	Total Iowa			4,666,079
	Kentucky – 1.3%			
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+	1,285,631
1,750	Kentucky Economic Development Finance Authority, Revenue Bonds, Next Generation Kentucky Information Highway Project, Senior Series 2015A, 5.000%, 1/01/45	7/25 at 100.00	Baa2	1,866,147
2,900	Total Kentucky			3,151,778
	Maine – 1.4%			
3,335	Maine Health and Higher Educational Facilities Authority, Revenue Bonds, Bowdoin College, Tender Option Bond Trust 2016-XL0014, 11.867%, 7/01/39 (Pre-refunded 7/01/19), 144A (IF) (4)	7/19 at 100.00	Aa2	3,616,207
	Maryland – 3.7%			
1,000	Baltimore, Maryland, Convention Center Hotel Revenue Bonds, Refunding Series 2017: 5.000%, 9/01/32	9/27 at 100.00	BBB-	1,138,310
2,250	5.000%, 9/01/34	9/27 at 100.00	BBB-	2,517,975
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	5,570,800
8,250	Total Maryland			9,227,085
	Massachusetts – 0.4%			
1,000	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Tender Option Bond Trust 2015-XF2186, 11.926%, 8/01/38, 144A (IF) (4)	8/19 at 100.00	AAA	1,091,990
	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	1,299,999
	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	547,180
	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)	5,713,366
2,000		12/24 at 100.00	AA+	2,257,260

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	Las Vegas Valley Water District, Nevada, General Obligation Bonds, Refunding Series 2015, 5.000%, 6/01/39	
7,415	Total Nevada	7,970,626
	New Jersey – 4.9%	
935	New Jersey Economic Development Authority, School Facilities Construction Bonds, Series 2005N-1, 5.500%, 9/01/27 – FGIC No Opt. Call A- Insured	1,096,044
4		

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	New Jersey (continued)			
\$ 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-	\$1,057,970
1,250	New Jersey Economic Development Authority, School Facility Construction Bonds, Series 2005K, 5.500%, 12/15/19 – AMBA No Opt. Call Insured	No Opt. Call	A-	1,310,513
2,135	New Jersey Educational Facilities Authority, Revenue Bonds, University of Medicine and Dentistry of New Jersey, Refunding Series 2009B: 7.125%, 12/01/23 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	2,234,982
3,000	7.500%, 12/01/32 (Pre-refunded 6/01/19)	6/19 at 100.00	N/R (6)	3,149,730
5,020	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/31	No Opt. Call	A-	2,834,945
255	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2015AA, 5.250%, 6/15/41	6/25 at 100.00	BBB+	275,558
355	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2018B, 5.000%, 6/01/46	6/28 at 100.00	BBB	381,213
13,950	Total New Jersey New York – 4.8%			12,340,955
3,000	Liberty Development Corporation, New York, Goldman Sachs Headquarters Revenue Bonds Series 2007, 5.500%, 10/01/37	No Opt. Call	A	3,822,720
2,500	Long Island Power Authority, New York, Electric System General Revenue Bonds, Series 2017: 5.000%, 9/01/42	9/27 at 100.00	A-	2,835,250
1,500	5.000%, 9/01/47	9/27 at 100.00	A-	1,694,865
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+	1,494,587
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+	1,670,895
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	469,272
10,380	Total New York North Carolina – 1.2%			11,987,589
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+	2,292,340
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	792,281
2,700	Total North Carolina Ohio – 5.2%			3,084,621

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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)	3,582,355
2,115	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2: 5.875%, 6/01/30	9/18 at 100.00	Caa1	2,125,575
5,910	6.500%, 6/01/47	9/18 at 100.00	B-	6,087,241
5				

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NUW Nuveen AMT-Free Municipal Value Fund (continued)
 Portfolio of Investments July 31, 2018
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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Ohio (continued)			
\$ 1,305	Franklin County, Ohio, Revenue Bonds, Trinity Health Credit Group, Series 2017OH, 4.000%, 12/01/46	6/27 at 100.00	AA-	\$ 1,326,337
12,830	Total Ohio			13,121,508
	Oklahoma – 0.1%			
255	Oklahoma Development Finance Authority, Health System Revenue Bonds, OU Medicine Project, Series 2018B, 5.250%, 8/15/43	8/28 at 100.00	BB+	288,339
	Rhode Island – 1.2%			
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	3,129,330
	South Carolina – 1.5%			
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	3,814,066
	Tennessee – 0.3%			
605	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	696,458
	Texas – 10.6%			
1,000	Austin Community College District Public Facility Corporation, Texas, Lease Revenue Bonds, Highland Campus - Building 3000 Project, Series 2018A, 5.000%, 8/01/42	8/27 at 100.00	AA	1,128,920
2,000	Austin, Texas, Electric Utility System Revenue Bonds, Refunding Series 2017, 5.000%, 11/15/35	11/26 at 100.00	AA	2,300,940
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	A-	2,072,424
	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	1,729,530
7,935	0.000%, 9/01/33 – AMBAC Insured	No Opt. Call	A2	4,366,710
7,500	Katy Independent School District, Harris, Fort Bend and Waller Counties, Texas, General Obligation Bonds, School Building Series 2017, 4.000%, 2/15/47	2/27 at 100.00	AAA	7,780,200
2,500	Katy Independent School District, Harris, Fort Bend and Waller Counties, Texas, General Obligation Bonds, Series 2017, 4.000%, 2/15/47 (UB) (4)	2/27 at 100.00	AAA	2,593,400
915	North Texas Tollway Authority, System Revenue Bonds, Refunding First Tier, Series 2015B, 5.000%, 1/01/45	1/25 at 100.00	A	1,008,678
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	279,595
1,500		12/22 at 100.00	BBB	1,618,125

Texas Municipal Gas Acquisition and Supply Corporation III, Gas
Supply Revenue Bonds, Series 2012, 5.000%, 12/15/32

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Texas (continued)			
	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	\$968,100
1,945	0.000%, 8/15/38	No Opt. Call	AAA	703,545
32,400	Total Texas			26,550,167
	Utah – 0.6%			
1,405	Salt Lake City, Utah, Airport Revenue Bonds, International Airport Series 2017B, 5.000%, 7/01/42	7/27 at 100.00	A+	1,603,260
	Virginia – 1.8%			
1,160	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	1,286,359
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	1,205,890
2,000	Washington County Industrial Development Authority, Virginia, Hospital Revenue Bonds, Mountain States Health Alliance, Series 2009C, 7.750%, 7/01/38 (Pre-refunded 1/01/19)	1/19 at 100.00	A (6)	2,052,520
4,560	Total Virginia			4,544,769
	Washington – 1.1%			
3,330	Chelan County Public Utility District 1, Washington, Columbia River-Rock Island Hydro-Electric System Revenue Refunding Bonds, Series 1997A, 0.000%, 6/01/29 – NPFQ Insured	No Opt. Call	AA+	2,343,588
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	483,586
3,770	Total Washington			2,827,174
	West Virginia – 2.1%			
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	1,648,980
3,000	West Virginia State, General Obligation Bonds, State Road Competitive Series 2018B, 5.000%, 6/01/33	6/28 at 100.00	Aa2	3,521,370
4,500	Total West Virginia			5,170,350
	Wisconsin – 4.8%			
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-	1,074,960
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)	1,649,362
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)	9,305,730
11,605	Total Wisconsin			12,030,052
\$ 274,955	Total Long-Term Investments (cost \$234,123,536)			253,755,909

NUW Nuveen AMT-Free Municipal Value Fund (continued)
 Portfolio of Investments July 31, 2018
 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	SHORT-TERM INVESTMENTS – 0.5%			
	MUNICIPAL BONDS – 0.5%			
	New York – 0.5%			
	New York City Municipal Water Finance Authority, New York, Water and Sewer System Second General Resolution Revenue Bonds, Fiscal 2014 Adjustable Rate Series AA-2, Variable Rate Demand Obligations, 1.500%, 6/15/50 (8)	10/18 at 100.00	AA+	\$ 1,250,000
\$ 1,250				
	Total Short-Term Investments (cost \$1,250,000)			1,250,000
\$ 1,250	Total Investments (cost \$235,373,536) – 101.5%			255,005,909
	Floating Rate Obligations – (3.6)%			(9,125,000)
	Other Assets Less Liabilities – 2.1%			5,401,970
				\$
	Net Assets – 100%			251,282,879

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	\$ —	\$253,755,909	\$ —	\$253,755,909
Short-Term Investments:				
Municipal Bonds	—	1,250,000	—	1,250,000
Total	\$ —	\$255,005,909	\$ —	\$255,005,909

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 July 31, 2018.

Tax cost of investments	\$225,495,528
Gross unrealized:	
Appreciation	\$ 21,010,244
Depreciation	(624,844)
Net unrealized appreciation (depreciation) of investments	\$ 20,385,400

- (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. 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.
- (2) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
- (3) 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.
- (4) 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.
- (5) Investment has maturity of greater than one year, but has variable rate and/or demand features which qualify it as a short-term investment. The rate disclosed, as well as the reference rate and spread, where applicable, is that in effect as of the end of the reporting period. This rate changes periodically based on market conditions or a specified market index.
- (6) Investment is exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These 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 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.

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 28, 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: September 28, 2018

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

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

Date: September 28, 2018