

BLACKROCK MUNIVEST FUND, INC.

Form N-Q

January 22, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED**

**MANAGEMENT INVESTMENT COMPANY**

Investment Company Act file number: 811-05611

Name of Fund: BlackRock MuniVest Fund, Inc. (MVF)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniVest Fund, Inc., 55 East 52<sup>nd</sup> Street, New York, NY 10055

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 08/31/2018

Date of reporting period: 11/30/2017

Item 1 Schedule of Investments

Schedule of Investments (unaudited)

BlackRock MuniVest Fund, Inc. (MVF)

November 30, 2017

(Percentages shown are based on Net Assets)

<i>Security</i>	<i>Par</i> <i>(000)</i>	<i>Value</i>
<b>Municipal Bonds 115.6%</b>		
<b>Alabama 2.8%</b>		
City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project, Series A:		
5.80%, 05/01/34	\$ 1,850	\$ 2,025,898
5.38%, 12/01/35	1,000	1,116,640
Lower Alabama Gas District, RB, Series A, 5.00%, 09/01/46	4,555	5,597,184
State of Alabama Docks Department, Refunding RB, 6.00%, 10/01/20 <sup>(a)</sup>	7,610	8,531,038
		17,270,760
<b>Alaska 0.6%</b>		
City of Anchorage Alaska Electric Revenue, Refunding RB, Series A, 5.00%, 12/01/41	3,000	3,424,620
<b>Arizona 4.0%</b>		
Arizona IDA, Refunding RB, Basis Schools, Inc. Projects, Series A, 5.38%, 07/01/50 <sup>(b)</sup>	2,500	2,645,000
City of Phoenix Arizona Civic Improvement Corp., Refunding RB, Junior Lien, Series A, 5.00%, 07/01/40	2,000	2,170,320
City of Phoenix Arizona IDA, RB, Candeo School, Inc. Project:		
6.63%, 07/01/33	2,245	2,543,989
6.88%, 07/01/44	3,440	3,867,557
City of Phoenix Arizona IDA, Refunding RB <sup>(b)</sup> :		
Basis Schools, Inc. Projects,		
5.00%, 07/01/35	600	627,282
Basis Schools, Inc. Projects,		
5.00%, 07/01/45	760	785,126
Basis Schools, Inc. Projects, Series A,		
5.00%, 07/01/35	1,125	1,176,154
Legacy Traditional School Projects,		
5.00%, 07/01/45	700	700,007
County of Maricopa Arizona Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 06/01/35	3,300	3,515,391
Salt Verde Arizona Financial Corp., RB, Senior, 5.00%, 12/01/37	5,725	6,970,989
		25,001,815
<b>California 6.3%</b>		
California Health Facilities Financing Authority, RB:		
	5,000	5,345,300

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St. Joseph Health System, Series A, 5.75%, 07/01/39		
Sutter Health, Series B, 6.00%, 08/15/42	5,600	6,280,960
	<i>Par</i>	
<i>Security</i>	<i>(000)</i>	<i>Value</i>
 <b>California (continued)</b>		
California Health Facilities Financing Authority, Refunding RB, Dignity Health, Series A, 6.00%, 07/01/19 <sup>(a)</sup>	\$ 1,055	\$ 1,128,438
City of Los Angeles California Department of Airports, Refunding ARB, Los Angeles International Airport, Series A, 5.25%, 05/15/39	1,200	1,262,580
Los Angeles Community College District, GO, Refunding Election of 2008, Series A, 6.00%, 08/01/19 <sup>(a)</sup>	9,585	10,295,153
Oakland Unified School District/Alameda County, GO, Series A, 5.00%, 08/01/40	1,000	1,143,250
Poway Unified School District, GO, Refunding, CAB, School Facilities Improvement District No. 2007-1, Election of 2008, Series B, 0.00%, 08/01/46 <sup>(c)</sup>	10,000	3,124,800
State of California, GO, Various Purposes, 6.50%, 04/01/33	9,675	10,324,289
		38,904,770
 <b>Colorado 0.8%</b>		
Centerra Metropolitan District No. 1, Tax Allocation Bonds, 5.00%, 12/01/47 <sup>(b)</sup>	1,025	1,052,849
Colorado Health Facilities Authority, RB, Catholic Health Initiatives, Series D, 6.25%, 10/01/33	2,500	2,590,400
Copperleaf Metropolitan District No. 2, GO, Refunding, 5.75%, 12/01/45	1,000	1,052,680
		4,695,929
 <b>Connecticut 0.4%</b>		
Connecticut State Health & Educational Facility Authority, RB, Sacred Heart University, Series I -1, 5.00%, 07/01/42	2,000	2,282,440
 <b>Delaware 0.4%</b>		
County of Sussex Delaware, RB, NRG Energy, Inc., Indian River Power LLC Project, 6.00%, 10/01/40	2,500	2,648,775
 <b>District of Columbia 0.2%</b>		
Metropolitan Washington Airports Authority, Refunding RB, Dulles Toll Road, 1st Senior Lien, Series A: 5.00%, 10/01/39	415	435,435

Schedule of Investments (unaudited) (continued)

BlackRock MuniVest Fund, Inc. (MVF)

November 30, 2017

(Percentages shown are based on Net Assets)

<i>Security</i>	<i>Par</i>	<i>Value</i>
	<i>(000)</i>	
<b>District of Columbia (continued)</b>		
Metropolitan Washington Airports Authority, Refunding RB, Dulles Toll Road, 1st Senior Lien, Series A (continued):		
5.25%, 10/01/44	\$ 650	\$ 683,936
		1,119,371
<b>Florida 7.2%</b>		
Celebration Pointe Community Development District, Special Assessment Bonds, County of Alachua Florida <sup>(b)</sup> :		
5.00%, 05/01/32	905	944,304
5.00%, 05/01/48	2,270	2,336,874
County of Miami-Dade Florida, GO, Building Better Communities Program <sup>(a)</sup> :		
Series B, 6.38%, 07/01/18	4,630	4,765,196
Series B-1, 5.63%, 07/01/18	5,000	5,124,600
County of Miami-Dade Florida, Refunding RB, Transit System Sales Surtax, 5.00%, 07/01/42	3,750	4,168,275
County of Miami-Dade Florida Aviation, Refunding ARB, Miami International Airport, Series A-1, 5.38%, 10/01/41	10,290	11,227,110
County of Miami-Dade Florida Educational Facilities Authority, Refunding RB, University of Miami, Series A, 5.00%, 04/01/45	4,625	5,190,268
County of Miami-Dade Florida Expressway Authority, Refunding RB, Series A (AGM), 5.00%, 07/01/35	8,900	9,569,102
Lakewood Ranch Stewardship District, Special Assessment Bonds, Lakewood National & Polo Run Projects:		
4.63%, 05/01/27	255	264,573
5.25%, 05/01/37	470	500,113
5.38%, 05/01/47	770	817,540
		44,907,955
<b>Georgia 0.8%</b>		
City of Atlanta Georgia Department of Aviation, Refunding GARB, Series B, AMT, 5.00%, 01/01/29	1,070	1,156,606
	<i>Par</i>	
<i>Security</i>	<i>(000)</i>	<i>Value</i>
<b>Georgia (continued)</b>		
DeKalb Georgia Private Hospital Authority, Refunding RB, Children's Healthcare, 5.25%, 11/15/39	\$ 3,335	\$ 3,573,019

		4,729,625
<b>Hawaii 0.9%</b>		
State of Hawaii Harbor System, RB, Series A, 5.50%, 07/01/35	5,000	5,435,700
<b>Illinois 12.7%</b>		
Chicago Board of Education, GO, Series H, 5.00%, 12/01/36	865	884,809
Chicago Board of Education, GO, Refunding, Dedicated Revenues: Series D, 5.00%, 12/01/25	1,560	1,627,829
Series F, 5.00%, 12/01/23	1,180	1,241,030
Series G, 5.00%, 12/01/34	865	886,193
City of Chicago Illinois O Hare International Airport, GARB, Senior Lien, Series D, AMT, 5.00%, 01/01/42	1,450	1,633,440
City of Chicago Illinois Transit Authority, RB, Sales Tax Receipts, 5.25%, 12/01/36	2,110	2,270,866
City of Chicago Illinois Wastewater Transmission, Refunding RB, 2nd Lien, Series C, 5.00%, 01/01/39	1,000	1,080,890
City of Chicago Illinois Waterworks, Refunding RB, 2nd Lien (AGM), 5.25%, 11/01/33	1,135	1,164,589
County of Cook Illinois Community College District No. 508, GO, University & College Improvements, 5.25%, 12/01/31	5,000	5,363,050
Illinois Finance Authority, RB: Advocate Health Care Network, Series D, 6.50%, 11/01/18 <sup>(a)</sup>	9,700	10,151,147
Memorial Health System, Series A, 5.25%, 07/01/44	1,785	1,931,888
Illinois Finance Authority, Refunding RB: Northwestern Memorial Hospital, Series A, 6.00%, 08/15/39	9,000	9,692,280
OSF Healthcare System, 6.00%, 05/15/20 <sup>(a)</sup>	3,205	3,524,186
OSF Healthcare System, 6.00%, 05/15/39	1,455	1,555,162
Presence Health Network, Series C, 5.00%, 02/15/41	3,600	3,958,884
Illinois State Toll Highway Authority, RB, Series A, 5.00%, 01/01/42 <sup>(d)</sup>	7,990	9,167,646

Schedule of Investments (unaudited) (continued)

BlackRock MuniVest Fund, Inc. (MVF)

November 30, 2017

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<i>Security</i>	<i>Par</i> <i>(000)</i>	<i>Value</i>
<b>Illinois (continued)</b>		
Metropolitan Pier & Exposition Authority, RB, McCormick Place Expansion Project Bonds:		
Series A, 0.00%, 12/15/56	\$ 8,755	\$ 1,264,922
Series A, 5.00%, 06/15/57 <sup>(d)</sup>	2,390	2,563,299
Series B, 0.00%, 12/15/54	13,125	2,116,931
Railsplitter Tobacco Settlement Authority, RB, 6.00%, 06/01/28	2,645	2,973,430
Regional Transportation Authority, RB:		
Series A (AMBAC), 7.20%, 11/01/20	1,235	1,359,043
Series C (NPFGC), 7.75%, 06/01/20	2,230	2,425,816
Village of Hodgkins Illinois, RB, Metropolitan Biosolids Management LLC Project, AMT, 6.00%, 11/01/23	10,000	10,014,300
		78,851,630
<b>Indiana 1.4%</b>		
City of Valparaiso Indiana, RB, Exempt Facilities, Pratt Paper LLC Project, AMT, 6.75%, 01/01/34	2,250	2,669,985
State of Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Series A, AMT, 5.00%, 07/01/40	2,640	2,851,411
State of Indiana Finance Authority, Refunding RB, Deaconess Health System, Series A, 5.00%, 03/01/39	3,000	3,359,370
		8,880,766
<b>Iowa 0.9%</b>		
Iowa Finance Authority, Refunding RB, Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.25%, 12/01/25	4,500	4,782,285
Iowa Tobacco Settlement Authority, Refunding RB, Asset-Backed, CAB, Series B, 5.60%, 06/01/34	1,000	1,006,210
		5,788,495
<b>Kansas 1.0%</b>		
City of Lenexa Kansas, Refunding RB, Lakeview Village, Inc., Series A, 5.00%, 05/15/43	1,965	2,032,242
Wyandotte County-Kansas City Unified Government Utility System, RB, Series A, 5.00%, 09/01/40	3,700	4,235,168
		6,267,410
<b>Kentucky 2.7%</b>		
County of Owen Kentucky, RB, Kentucky American Water Co. Project, Series B, 5.63%, 09/01/39	1,000	1,057,640
<i>Security</i>	<i>Par</i>	<i>Value</i>

(000)

**Kentucky (continued)**

Kentucky Economic Development Finance Authority, Refunding RB, Hospital Facilities, St. Elizabeth Medical Center, Inc., Series A, 5.50%, 05/01/19 <sup>(a)</sup>	\$ 8,000	\$ 8,434,960
Lexington-Fayette Urban County Airport Board, Refunding GARB, Series A, 5.00%, 07/01/19 <sup>(a)</sup>	7,000	7,369,740
		16,862,340

**Louisiana 4.0%**

City of New Orleans Aviation Board, ARB, General Airport North Terminal Project, Series B, AMT, 5.00%, 01/01/48	4,000	4,536,160
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp. Project, Series A-1, 6.50%, 11/01/35	2,615	2,948,177
Parish of St. Charles Louisiana, RB, Valero Energy Corp., 4.00%, 12/01/40 <sup>(e)</sup>	2,210	2,357,761
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A: 5.25%, 05/15/31	3,420	3,703,997
5.25%, 05/15/32	4,375	4,779,994
5.25%, 05/15/33	4,750	5,146,482
5.25%, 05/15/35	1,500	1,628,355
		25,100,926

**Maine 1.0%**

Maine Health & Higher Educational Facilities Authority, RB, Series A: 5.00%, 07/01/19 <sup>(a)</sup>	1,560	1,641,151
5.00%, 07/01/39	3,440	3,578,460
Portland Housing Development Corp., Refunding RB, Senior Living, Retirement Facilities, Series A, 6.00%, 02/01/34	1,190	1,191,690
		6,411,301

**Maryland 3.2%**

City of Baltimore Maryland, Refunding RB, East Baltimore Research Park, Series A, 4.50%, 09/01/33	545	569,013
County of Howard Maryland Housing Commission, RB, M/F Housing, Woodfield Oxford Square Apartments, 5.00%, 12/01/42	4,935	5,577,586



## Schedule of Investments (unaudited) (continued)

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November 30, 2017

(Percentages shown are based on Net Assets)

<i>Security</i>	<i>Par</i> <i>(000)</i>	<i>Value</i>
<b>Maryland (continued)</b>		
Maryland Health & Higher Educational Facilities Authority, Refunding RB: Charlestown Community Project, 6.25%, 01/01/21 <sup>(a)</sup>	\$ 2,000	\$ 2,271,480
Meritus Medical Center Issue, 5.00%, 07/01/40	6,350	6,895,211
University of Maryland Medical System, 5.00%, 07/01/19 <sup>(a)</sup>	1,990	2,093,520
University of Maryland Medical System, 5.13%, 07/01/19 <sup>(a)</sup>	2,100	2,213,295
		19,620,105
<b>Massachusetts 2.3%</b>		
Massachusetts Bay Transportation Authority, Refunding RB, General Transportation System, Series A, 7.00%, 03/01/19	740	767,624
Massachusetts Development Finance Agency, RB, Emerson College Issue, Series A: 5.00%, 01/01/47	845	951,901
5.25%, 01/01/42	1,895	2,179,496
Massachusetts Development Finance Agency, Refunding RB, Emerson College, Series A, 5.00%, 01/01/40	2,180	2,497,430
Massachusetts HFA, Refunding RB, Series C, AMT, 5.35%, 12/01/42	3,625	3,843,479
Massachusetts Water Resources Authority, RB, Series A, 6.50%, 07/15/19 <sup>(f)</sup>	3,965	4,126,772
		14,366,702
<b>Michigan 2.3%</b>		
City of Detroit Michigan Water Supply System Revenue, RB, 2nd Lien, Series B (AGM), 6.25%, 07/01/19 <sup>(a)</sup>	2,495	2,675,089
Michigan State Hospital Finance Authority, Refunding RB, McLaren Health Care, Series A, 5.75%, 05/15/18 <sup>(a)</sup>	7,285	7,430,991
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, Series V, 8.25%, 09/01/18 <sup>(a)</sup>	4,100	4,308,567
		14,414,647
<b>Minnesota 0.7%</b>		
City of Cologne Minnesota Charter School, LRB, Cologne Academy Project, Series A, 5.00%, 07/01/45	1,500	1,520,070
	<i>Par</i>	
<i>Security</i>	<i>(000)</i>	<i>Value</i>

**Minnesota (continued)**

County of St. Paul Minnesota Housing & Redevelopment Authority, Refunding RB, Fairview Health Services, Series A, 4.00%, 11/15/43	\$ 1,940	\$ 2,025,845
Housing & Redevelopment Authority of The City of Saint Paul Minnesota, RB, Great River School Project, Series A, 5.50%, 07/01/52 <sup>(b)</sup>	695	706,342

4,252,257

**Mississippi 4.5%**

County of Lowndes Mississippi, Refunding RB, Solid Waste Disposal & Pollution Control, Weyerhaeuser Co. Project: Series A, 6.80%, 04/01/22	9,160	10,613,875
Series B, 6.70%, 04/01/22	4,500	5,196,060
Mississippi Business Finance Corp., Refunding RB, System Energy Resource, Inc. Project, 5.88%, 04/01/22	9,305	9,331,892
Mississippi Development Bank, Refunding RB, Municipal Energy Agency Of Mississippi, Series A (AGM), 4.00%, 03/01/41	3,000	3,102,120

28,243,947

**Montana 0.3%**

Montana State Board of Housing, RB, S/F,  
Series B-2:  
3.38%, 12/01/37