

BLACKROCK MUNIVEST FUND, INC.

Form N-Q

July 23, 2015

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: 08/31/2015

Date of reporting period: 05/31/2015

Item 1 Schedule of Investments

## Schedule of Investments May 31, 2015 (Unaudited)

BlackRock MuniVest Fund, Inc. (MVF)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Alabama 1.9%</b>		
City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project, Series A:		
5.80%, 5/01/34	\$ 1,850	\$ 2,122,746
5.38%, 12/01/35	1,000	1,127,080
State of Alabama Docks Department, Refunding RB, 6.00%, 10/01/40	7,610	8,826,839
		12,076,665
<b>Alaska 0.7%</b>		
City of Anchorage Alaska Electric Revenue, Refunding RB, Series A, 5.00%, 12/01/41		
	3,000	3,333,000
Northern Tobacco Securitization Corp., Refunding RB, Tobacco Settlement, Asset-Backed, Series A, 5.00%, 6/01/46		
	1,250	975,275
		4,308,275
<b>Arizona 4.7%</b>		
City of Phoenix Arizona Civic Improvement Corp., Refunding RB, Junior Lien, Series A, 5.00%, 7/01/40		
	2,000	2,158,840
City of Phoenix Arizona IDA, RB:		
Basis Schools, Inc. Projects, 5.00%, 7/01/35 (a)	600	608,520
Basis Schools, Inc. Projects, 5.00%, 7/01/45 (a)	760	758,792
Candeo School, Inc. Project, 6.63%, 7/01/33	2,245	2,514,063
Candeo School, Inc. Project, 6.88%, 7/01/44	3,440	3,905,638
City of Phoenix Arizona IDA, Refunding RB, Legacy Traditional School Projects, 5.00%, 7/01/45 (a)		
	700	688,198
County of Maricopa Arizona IDA, RB, Arizona Charter Schools Project, Series A, 6.75%, 7/01/29	3,430	3,205,438
County of Maricopa Arizona Pollution Control Corp., Refunding RB, Southern California Edison Co., Series A, 5.00%, 6/01/35		
	3,300	3,683,526
	<b>Par</b>	
	<b>(000)</b>	<b>Value</b>
<b>Municipal Bonds</b>		
<b>Arizona (concluded)</b>		
Salt Verde Financial Corp., RB, Senior, 5.00%, 12/01/37		
	\$ 11,725	\$ 13,063,643
		30,586,658
<b>California 6.3%</b>		
California Health Facilities Financing Authority, RB:		
St. Joseph Health System, Series A, 5.75%, 7/01/39	5,000	5,738,900
Sutter Health, Series B, 6.00%, 8/15/42	5,600	6,652,352
California Health Facilities Financing Authority, Refunding RB, Catholic Healthcare West, Series A, 6.00%, 7/01/34		
	1,055	1,210,918
California HFA, RB, S/F Housing, Home Mortgage, Series K, AMT, 5.50%, 2/01/42	495	503,648
City of Los Angeles California Department of Airports, Refunding ARB, Los Angeles International Airport, Series A, 5.25%, 5/15/39		
	1,200	1,351,908
Los Angeles Community College District California, GO, Refunding, Election of 2008, Series A, 6.00%, 8/01/19 (b)		
	9,585	11,442,190
Poway Unified School District, GO, Refunding, CAB, School Facilities Improvement District No. 2007-1, Election of 2008, Series B, 0.00%, 8/01/46 (c)		
	10,000	2,443,200
State of California, GO, Various Purposes, 6.50%, 4/01/33	9,675	11,580,878
		40,923,994
<b>Colorado 1.0%</b>		
Colorado Health Facilities Authority, RB, Catholic Health Initiatives, Series D, 6.25%, 10/01/33		
	2,500	2,843,175
Colorado Health Facilities Authority, Refunding RB, Evangelical Lutheran, Series A, 5.25%, 6/01/34		
	3,000	3,011,010

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## Schedule of Investments (continued)

BlackRock MuniVest Fund, Inc. (MVF)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
<b>Municipal Bonds</b>		
<b>Colorado (concluded)</b>		
Regional Transportation District, COP, Refunding, Series A, 5.38%, 6/01/31	\$ 385	\$ 439,304
		6,293,489
<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	2,865,850
<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	449,341
5.25%, 10/01/44	650	719,862
		1,169,203
<b>Florida 7.3%</b>		
County of Miami-Dade Florida, GO, Building Better Communities Program:		
Series B, 6.38%, 7/01/28	4,630	5,302,091
Series B-1, 5.63%, 7/01/38	5,000	5,604,950
County of Miami-Dade Florida, Refunding RB, Transit System Sales Surtax, 5.00%, 7/01/42	3,750	4,112,662
County of Miami-Dade Florida Aviation, Refunding ARB, Miami International Airport:		
Series A, AMT (AGC), 5.00%, 10/01/40	10,000	10,410,700
Series A-1, 5.38%, 10/01/41	10,290	11,584,585
County of Miami-Dade Florida Expressway Authority, RB, Toll System, Series A (AGM), 5.00%, 7/01/35	8,900	9,859,420
		46,874,408
<b>Georgia 1.7%</b>		
City of Atlanta Georgia Department of Aviation, Refunding GARB, Series B, AMT, 5.00%, 1/01/29	1,070	1,166,674
County of DeKalb Georgia Hospital Authority, Refunding RB, DeKalb Medical Center, Inc. Project, 6.13%, 9/01/40	3,570	3,873,878
DeKalb Private Hospital Authority, Refunding RB, Children's Healthcare, 5.25%, 11/15/39	3,335	3,770,985
	<b>Par</b>	
<b>Municipal Bonds</b>		
<b>Georgia (concluded)</b>		
Municipal Electric Authority of Georgia, Refunding RB, Series W, 6.60%, 1/01/18	\$ 1,790	\$ 1,902,663
		10,714,200
<b>Hawaii 0.9%</b>		
State of Hawaii Harbor System, RB, Series A, 5.50%, 7/01/35	5,000	5,697,150
<b>Illinois 10.4%</b>		
City of Chicago Illinois, GARB, O'Hare International Airport, 3rd Lien, Series B-2, AMT (NPFGC), 6.00%, 1/01/27	605	607,759
City of Chicago Illinois, Refunding RB, Sales Tax Receipts, Series A, 5.00%, 1/01/41	4,640	4,746,905
City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, 5.00%, 1/01/41	1,740	1,830,463
City of Chicago Illinois Transit Authority, RB, Sales Tax Receipts, 5.25%, 12/01/36	2,110	2,234,975
City of Chicago Illinois Waterworks, Refunding RB, 2nd Lien (AGM), 5.25%, 11/01/33	1,330	1,419,456
County of Cook Illinois Community College District No. 508, GO, University & College Improvements, 5.25%, 12/01/31	5,000	5,595,950
Illinois Finance Authority, RB:		
Advocate Health Care Network, Series D, 6.50%, 11/01/18 (b)	9,700	11,367,236
Community Rehabilitation Providers Facilities, Series A, 6.50%, 7/01/22	575	575,397
Disposal Waste Management, Inc., Series A, AMT, 5.05%, 8/01/29	1,000	1,017,600
Memorial Health System, Series A, 5.25%, 7/01/44	1,785	1,917,411
Illinois Finance Authority, Refunding RB, Series A:		

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Northwestern Memorial Hospital, 6.00%, 8/15/39	9,000	10,321,110
OSF Healthcare System, 6.00%, 5/15/39	4,990	5,777,372
Railsplitter Tobacco Settlement Authority, RB, 6.00%, 6/01/28	2,645	3,122,555

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<b>Illinois (concluded)</b>		
Regional Transportation Authority, RB:		
Series A (AMBAC), 7.20%, 11/01/20	\$ 2,240	\$ 2,580,682
Series C (NPFGC), 7.75%, 6/01/20	3,455	3,984,755
Village of Hodgkins Illinois, RB, Metropolitan Biosolids Management LLC Project, AMT, 6.00%, 11/01/23	10,000	10,016,600
		67,116,226
<b>Indiana 0.9%</b>		
City of Valparaiso Indiana, RB, Exempt Facilities, Pratt Paper LLC Project, AMT, 6.75%, 1/01/34	2,250	2,720,858
Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Series A, AMT, 5.00%, 7/01/40	2,640	2,776,092
		5,496,950
<b>Iowa 1.6%</b>		
Iowa Finance Authority, Refunding RB, Midwestern Disaster Area, Iowa Fertilizer Co. Project, 5.25%, 12/01/25	4,500	4,998,060
Iowa Tobacco Settlement Authority, Refunding RB, Asset-Backed:		
CAB, Series B, 5.60%, 6/01/34	1,500	1,421,130
Series C, 5.63%, 6/01/46	4,500	3,966,750
		10,385,940
<b>Kentucky 2.8%</b>		
County of Owen Kentucky, RB, Kentucky American Water Co. Project, Series B, 5.63%, 9/01/39	1,000	1,091,130
Kentucky Economic Development Finance Authority, Refunding RB, Hospital Facilities, St. Elizabeth Medical Center, Inc., Series A, 5.50%, 5/01/39	8,000	8,995,360
	<b>Par</b>	
<b>Municipal Bonds</b>		
<b>Kentucky (concluded)</b>		
Lexington-Fayette Urban County Airport Board, Refunding GARB, Series A, 5.00%, 7/01/27	\$ 7,000	\$ 7,885,360
		17,971,850
<b>Louisiana 3.3%</b>		
Louisiana Local Government Environmental Facilities & Community Development Authority, RB, Westlake Chemical Corp. Project, Series A-1, 6.50%, 11/01/35	2,615	3,137,869
Parish of St. Charles Louisiana, RB, Valero Energy Corp., 4.00%, 12/01/40 (d)	2,210	2,409,651
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A:		
5.25%, 5/15/31	3,420	3,825,270
5.25%, 5/15/32	4,375	4,971,575
5.25%, 5/15/33	4,750	5,284,328
5.25%, 5/15/35	1,500	1,676,250
		21,304,943
<b>Maine 1.0%</b>		
Maine Health & Higher Educational Facilities Authority, RB, Series A, 5.00%, 7/01/39	5,000	5,411,450
Portland Housing Development Corp., Refunding RB, Senior Living, Retirement Facilities, Series A, 6.00%, 2/01/34	1,190	1,202,388
		6,613,838
<b>Maryland 1.8%</b>		
Maryland Community Development Administration, HRB, Series H, AMT, 5.10%, 9/01/37	1,835	1,861,626
Maryland Community Development Administration, Refunding, HRB, Residential, Series D, AMT, 4.90%, 9/01/42	3,250	3,280,225
Maryland Health & Higher Educational Facilities Authority, Refunding RB:		
Charlestown Community Project, 6.25%, 1/01/41	2,000	2,222,240

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University of Maryland Medical System, 5.00%, 7/01/34

2,100

2,262,120

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Schedule of Investments (continued)

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	Par (000)	Value
<b>Municipal Bonds</b>		
<b>Maryland (concluded)</b>		
Maryland Health & Higher Educational Facilities Authority, Refunding RB (concluded):		
University of Maryland Medical System, 5.13%, 7/01/39	\$ 2,100	\$ 2,262,078
		11,888,289
<b>Massachusetts 4.1%</b>		
Massachusetts Bay Transportation Authority, Refunding RB, General Transportation System, Series A, 7.00%, 3/01/19		