

Edgar Filing: BLACKROCK MUNIVEST FUND INC - Form N-Q

BLACKROCK MUNIVEST FUND INC  
 Form N-Q  
 January 29, 2008

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: Donald C. Burke, Chief Executive Officer,  
 BlackRock MuniVest Fund, Inc., 800 Scudders Mill Road, Plainsboro, NJ  
 08536. Mailing address: P.O. Box 9011, Princeton, NJ 08543-9011

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

Date of fiscal year end: 08/31/2008

Date of reporting period: 09/01/2007 - 11/30/2007

Item 1 - Schedule of Investments

BlackRock MuniVest Fund, Inc.  
 Schedule of Investments as of November 30, 2007 (Unaudited) (in Thousands)

State	Face Amount	Municipal Bonds
Alabama - 2.9%	\$ 2,550	Camden, Alabama, IDB, Exempt Facilities Revenue Bonds (Weyerhaeuser Series A, 6.125% due 12/01/2024
	3,500	Huntsville, Alabama, Health Care Authority Revenue Bonds, Series A, 6.125% due 6/01/2011 (a)
	6,500	Prattville, Alabama, IDB, Environmental Improvement Revenue Bonds (International Paper Company Projects), AMT, Series A, 4.75% due 12/01/2030
	5,000	Selma, Alabama, IDB, Environmental Improvement Revenue Refunding Bonds (International Paper Company Project), Series B, 5.50% due 5/01/2030
Arizona - 2.4%	4,100	Maricopa County, Arizona, IDA, Education Revenue Bonds (Arizona Education Project 1), Series A, 6.75% due 7/01/2029
	2,100	Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Education Project), Series E, 7.25% due 7/01/2031
	500	Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Education Project), Series I, 6.10% due 7/01/2024
	1,000	Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Education Project), Series I, 6.30% due 7/01/2031
	1,545	Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Arizona Education Schools Project), Series O, 5% due 7/01/2026
	560	Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Arizona Education Schools Project), Series O, 5% due 7/01/2026

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		Schools Project II), Series A, 6.75% due 7/01/2011 (a)
	970	Pima County, Arizona, IDA, Education Revenue Refunding Bonds (
		Schools Project II), Series A, 6.75% due 7/01/2021
	3,500	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue
		due 12/01/2037
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California - 16.4%	18,850	California Health Facilities Financing Authority Revenue Bonds
		Permanente), Series A, 5.25% due 4/01/2039
	550	California State, GO, 5.50% due 4/01/2014 (a)
	10	California State, GO, 5.50% due 4/01/2030
	5,000	California State Public Works Board, Lease Revenue Bonds (Depa
		Corrections), Series C, 5.50% due 6/01/2022
	6,000	California State Public Works Board, Lease Revenue Bonds (Depa
		Corrections), Series C, 5.50% due 6/01/2023
	11,075	California State Public Works Board, Lease Revenue Bonds (Depa
		Health - Coalinga State Hospital), Series A, 5.125% due 6/01/2
	11,250	California State, Various Purpose, GO, 5.50% due 11/01/2033
	5,240	California Statewide Communities Development Authority, Health
		Bonds (Memorial Health Services), Series A, 6% due 10/01/2023

Portfolio Abbreviations

To simplify the listings of BlackRock MuniVest Fund, Inc.'s portfolio holdings in the Schedule of Investments, we have abbreviated the names of many of the securities according to the list below.

AMT	Alternative Minimum Tax (subject to)
DRIVERS	Derivative Inverse Tax-Exempt Receipts
EDA	Economic Development Authority
GO	General Obligation Bonds
HFA	Housing Finance Agency
IDA	Industrial Development Authority
IDB	Industrial Development Board
IDR	Industrial Development Revenue Bonds
PCR	Pollution Control Revenue Bonds
RIB	Residual Interest Bonds
S/F	Single-Family
VRDN	Variable Rate Demand Notes

BlackRock MuniVest Fund, Inc.

Schedule of Investments as of November 30, 2007 (Unaudited)

(in Thousands)

State	Face Amount	Municipal Bonds
	\$ 1,250	Chula Vista, California, IDR (San Diego Gas and Electric Compa
		Series B, 5% due 12/01/2027
	10,725	Golden State Tobacco Securitization Corporation of California,
		Revenue Bonds, Series A-3, 7.875% due 6/01/2013 (a)
	3,750	Golden State Tobacco Securitization Corporation of California,
		Revenue Bonds, Series A-4, 7.80% due 6/01/2013 (a)
	1,425	Golden State Tobacco Securitization Corporation of California,
		Revenue Bonds, Series A-5, 7.875% due 6/01/2013 (a)
	10,000	Golden State Tobacco Securitization Corporation of California,
		Revenue Bonds, Series B, 5.375% due 6/01/2010 (a)
	5,100	Golden State Tobacco Securitization Corporation of California,

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Revenue Refunding Bonds, Senior Series A-1, 5.125% due 6/01/2020		
Colorado - 0.6%	540	Colorado HFA, Revenue Refunding Bonds (S/F Program), AMT, Senior Series A, 6.60% due 5/01/2028
	180	Colorado HFA, Revenue Refunding Bonds (S/F Program), AMT, Senior Series B, 7.50% due 4/01/2031
	3,000	Colorado Health Facilities Authority Revenue Bonds (Lutheran Medical Center Project), Series A, 5.25% due 6/01/2034
Connecticut - 0.5%	2,810	Mohegan Tribe Indians Gaming Authority, Connecticut, Public Improvement Refunding Bonds (Priority Distribution), 6.25% due 1/01/2031
Florida - 5.8%	15,800	Highlands County, Florida, Health Facilities Authority, Hospital Revenue Bonds (Adventist Health System), Series C, 5.25% due 11/15/2036
	6,500	Hillsborough County, Florida, IDA, Hospital Revenue Bonds (H. Frankland Center Project), Series A, 5.25% due 7/01/2037
	10,320	Orange County, Florida, Health Facilities Authority, Hospital Revenue Bonds (Adventist Health System), 5.625% due 11/15/2012 (a)
Georgia - 4.5%	1,100	Gainesville, Georgia, Redevelopment Authority, Educational Facilities Refunding Bonds (Riverside Military Academy), 5.125% due 3/01/2028
	4,600	Georgia Municipal Electric Authority, Power Revenue Refunding Bonds, Series A, 6.60% due 1/01/2018
	250	Georgia Municipal Electric Authority, Power Revenue Refunding Bonds, Series B, 6.60% due 1/01/2018 (e)
	250	Georgia Municipal Electric Authority, Power Revenue Refunding Bonds, Series C, 10% due 1/01/2010 (e)
	5,000	Houston County, Georgia, Hospital Authority Revenue Bonds (Houston County Hospital Project), 5.25% due 10/01/2035
	4,390	Milledgeville-Baldwin County, Georgia, Development Authority Revenue Bonds (Georgia College and State University Foundation), 5.50% due 9/01/2028
	3,500	Milledgeville-Baldwin County, Georgia, Development Authority Revenue Bonds (Georgia College and State University Foundation), 5.625% due 9/01/2028
	4,785	Monroe County, Georgia, Development Authority, PCR, Refunding Bonds (Monroe County Corporation-Scherer), Series A, 6.80% due 1/01/2011
Idaho - 0.5%	330	Idaho Housing Agency, S/F Mortgage Revenue Refunding Bonds, Series A, 6.90% due 1/01/2027
	2,380	Idaho Housing and Financing Association, S/F Mortgage Revenue Refunding Bonds, Series J-1, Class III, 5% due 1/01/2028
Illinois - 11.2%	5,000	Chicago, Illinois, O'Hare International Airport, General Airport Revenue Bonds, Third Lien, AMT, Series A, 5.75% due 1/01/2019 (c)
	11,200	Chicago, Illinois, O'Hare International Airport Revenue Bonds, Series B-2, 6% due 1/01/2029 (n)
	75	Chicago, Illinois, S/F Mortgage Revenue Bonds, AMT, Series C, due 3/01/2032 (d)(k)

BlackRock MuniVest Fund, Inc.

Schedule of Investments as of November 30, 2007 (Unaudited)

(in Thousands)

State	Face Amount	Municipal Bonds
	\$10,000	Hodgkins, Illinois, Environmental Improvement Revenue Bonds (Management LLC Project), AMT, 6% due 11/01/2023

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	2,140	Illinois Development Finance Authority Revenue Bonds (Community Providers Facilities), Series A, 6.50% due 7/01/2022
	465	Illinois Development Finance Authority, Revenue Refunding Bonds (Rehabilitation Providers Facilities), Series A, 6% due 7/01/2022
	2,695	Illinois State Finance Authority, Revenue Bonds (Community Rehabilitation Facilities), 4.625% due 7/01/2027
	12	Kane and De Kalb Counties, Illinois, Community Unit School District DRIVERS, Series 283, 7.545% due 2/01/2018 (f)(m)
	1,005	McLean and Woodford Counties, Illinois, Community Unit School District GO, Refunding, 6.25% due 12/01/2014 (i)
	845	McLean and Woodford Counties, Illinois, Community Unit School District GO, Refunding, 6.375% due 12/01/2016 (i)
	18,550	Metropolitan Pier and Exposition Authority, Illinois, Dedicated Refunding Bonds (McCormick Place Expansion Project), Series B, due 6/15/2023 (c)
	3,500	Regional Transportation Authority, Illinois, Revenue Bonds, Series A, due 11/01/2020 (h)
	4,000	Regional Transportation Authority, Illinois, Revenue Bonds, Series A, due 6/01/2020 (f)
	395	Will County, Illinois, School District Number 122 (New Lenox Elementary School), Series A, 6.50% due 11/01/2010 (a)(i)
	505	Will County, Illinois, School District Number 122 (New Lenox Elementary School), Series A, 6.50% due 11/01/2013 (i)
-----		
Indiana - 8.5%	18,350	Indiana Health and Educational Facilities Financing Authority, Revenue Bonds (Clarian Health Obligation), Series A, 5.25% due 2/15/2022
	4,290	Indiana State, HFA, S/F Mortgage Revenue Refunding Bonds, Series A, due 1/01/2017 (j)
	8,195	Indiana Transportation Finance Authority, Highway Revenue Bonds, Series A, 6.80% due 12/01/2016
	15,335	Indianapolis, Indiana, Local Public Improvement Bond Bank, Revenue Bonds, Series D, 6.75% due 2/01/2014
-----		
Iowa - 1.1%	6,540	Iowa Financing Authority, S/F Mortgage Revenue Refunding Bonds, Series A, 5.15% due 7/01/2032 (d)
-----		
Kansas - 0.7%	3,805	Sedgwick and Shawnee Counties, Kansas, S/F Mortgage Revenue Bonds (Securities Program), AMT, Series A-4, 5.95% due 12/01/2033 (d)
-----		
Kentucky - 3.4%	20,100	Louisville and Jefferson County, Kentucky, Metropolitan Government, Revenue Refunding Bonds (Norton Healthcare, Inc.), 5.25% due 12/01/2022
-----		
Louisiana - 3.5%	8,720	Louisiana Public Facilities Authority, Hospital Revenue Bonds (Missionaries of Our Lady Health System, Inc.), Series A, 5% due 12/01/2022
	11,660	Louisiana Public Facilities Authority, Hospital Revenue Bonds (Missionaries of Our Lady Health System, Inc.), Series A, 5.25% due 12/01/2022
-----		
Maine - 0.3%	775	Portland, Maine, Housing Development Corporation, Senior Living (Avesta Housing Development Corporation Project), Series A, 5.5% due 12/01/2022
	1,190	Portland, Maine, Housing Development Corporation, Senior Living (Avesta Housing Development Corporation Project), Series A, 6% due 12/01/2022
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Maryland - 0.5%	3,250	Maryland State Community Development Administration, Department of Community Development, Residential Revenue Refunding Bonds, Series A, due 9/01/2042
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BlackRock MuniVest Fund, Inc.

Schedule of Investments as of November 30, 2007 (Unaudited)

(in Thousands)

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State	Face Amount	Municipal Bonds
Massachusetts - 9.7%	\$ 2,035	Boston, Massachusetts, Water and Sewer Commission Revenue Bonds due 1/01/2011 (e)
	3,010	Massachusetts Bay Transportation Authority, Revenue Refunding (Transportation System), Series A, 7% due 3/01/2019 (q)
	3,000	Massachusetts State, HFA, Housing Revenue Bonds, AMT, Series A
	3,000	Massachusetts State, HFA, Housing Revenue Refunding Bonds, AMT due 6/01/2040
	5,500	Massachusetts State, HFA, S/F Housing Revenue Bonds, AMT, Series due 12/01/2032
	30,000	Massachusetts State Water Resource Authority Revenue Bonds, Series due 7/15/2019 (e)
	1,000	Massachusetts State Water Resource Authority, Revenue Refunding 6% due 8/01/2010 (a) (f)
	2,480	Massachusetts State Water Resource Authority, Revenue Refunding 6% due 8/01/2010 (a) (f)
Michigan - 7.2%	2,500	Delta County, Michigan, Economic Development Corporation, Environmental Revenue Refunding Bonds (Mead Westvaco-Escanaba), Series A, 6.75% due 11/15/2025
	3,715	Macomb County, Michigan, Hospital Finance Authority, Hospital Clemens General Hospital), Series B, 5.75% due 11/15/2025
	4,250	Macomb County, Michigan, Hospital Finance Authority, Hospital Clemens General Hospital), Series B, 5.875% due 11/15/2034
	1,900	Michigan State Hospital Finance Authority, Hospital Revenue Refunding (Crittenton Hospital), Series A, 5.625% due 3/01/2027
	2,000	Michigan State Hospital Finance Authority, Hospital Revenue Refunding (Oakwood Obligated Group), Series A, 5% due 7/15/2025
	7,205	Michigan State Hospital Finance Authority, Revenue Refunding Bonds (Health System), Series A, 5.25% due 11/15/2032
	17,100	Michigan State Hospital Finance Authority, Revenue Refunding Bonds (Health System), Series A, 5% due 11/15/2038
	2,750	Michigan State Hospital Finance Authority, Revenue Refunding Bonds (Health System), Series A, 5.25% due 11/15/2046
	1,000	Michigan State Hospital Finance Authority, Revenue Refunding Bonds (Sinai Hospital), 6.70% due 1/01/2026
Minnesota - 1.6%	7,235	Minneapolis, Minnesota, Health Care System Revenue Bonds (Allina Series A, 5.75% due 11/15/2012 (a)
	1,405	Saint Cloud, Minnesota, Health Care Revenue Refunding Bonds (Sinai Obligation Group), Series A, 6.25% due 5/01/2017 (i)
Mississippi - 6.2%	9,160	Lowndes County, Mississippi, Solid Waste Disposal and PCR, Refunding (Company Project), Series A, 6.80% due 4/01/2022
	4,500	Lowndes County, Mississippi, Solid Waste Disposal and PCR, Refunding (Company Project), Series B, 6.70% due 4/01/2022
	20,705	Mississippi Business Finance Corporation, Mississippi, PCR, Refunding (Energy Resources Inc. Project), 5.875% due 4/01/2022
Missouri - 0.5%	2,600	Missouri State Development Finance Board, Infrastructure Facility Refunding Bonds (Branson), Series A, 5.50% due 12/01/2032
	195	Missouri State Housing Development Commission, S/F Mortgage Revenue (Homeowner Loan), AMT, Series A, 7.50% due 3/01/2031 (d)
Montana - 1.0%	6,000	Forsyth, Montana, PCR, Refunding (Portland General Electric Company), 5.20% due 5/01/2033

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BlackRock MuniVest Fund, Inc.

Schedule of Investments as of November 30, 2007 (Unaudited)

(in Thousands)

State	Face Amount	Municipal Bonds
Nebraska - 0.0%	\$ 135	Nebraska Investment Finance Authority, S/F Housing Revenue Bonds, 6.30% due 9/01/2028 (d) (k)
Nevada - 0.2%	1,105	Nevada Housing Division Revenue Bonds (Multi-Unit Housing), AM due 10/01/2017 (b)
New Hampshire - 0.5%	2,675	New Hampshire Health and Education Facilities Authority, Revenue Bonds (Elliot Hospital), Series B, 5.60% due 10/01/2022
New Jersey - 4.9%	9,080 2,885 2,855 6,695 5,980	New Jersey EDA, Cigarette Tax Revenue Bonds, 5.50% due 6/15/2022 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75% due 6/15/2022 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.50% due 6/15/2022 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75% due 6/15/2022 Tobacco Settlement Financing Corporation of New Jersey, Asset-Backed Bonds, 7% due 6/01/2013 (a)
New Mexico - 0.6%	3,300	Farmington, New Mexico, PCR, Refunding (Public Service Company San Juan Project), Series A, 5.80% due 4/01/2022
New York - 1.5%	400 1,125 965 5,480 20 400	Metropolitan Transportation Authority, New York, Dedicated Tax Refunding Bonds, VRDN, Series B, 3.54% due 11/01/2022 (i) (1) New York City, New York, City Transitional Finance Authority Revenue Bonds, Series 283, 8.56% due 11/15/2015 (m) New York City, New York, GO, Refunding, Series A, 6.375% due 5/15/2033 New York City, New York, GO, Series F, 5.25% due 1/15/2033 New York City, New York, GO, Series I, 6.25% due 4/15/2017 (a) New York State Local Government Assistance Corporation, Revenue Bonds, Sub-Lien, VRDN, Series 4V, 3.50% due 4/01/2022 (i) (1)
North Carolina - 0.7%	4,105	Gaston County, North Carolina, Industrial Facilities and Pollution Control Financing Authority, Revenue Bonds (National Gypsum Company Project), due 8/01/2035
Ohio - 5.0%	8,870 3,000 17,000	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Asset-Backed Bonds, Series A-2, 6% due 6/01/2043 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Asset-Backed Bonds, Series A-2, 5.875% due 6/01/2048 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Asset-Backed Bonds, Series A-2, 6.50% due 6/01/2048
Oklahoma - 1.3%	7,635	Oklahoma State Development Finance Authority, Revenue Refunding Bonds (John Health System), 5% due 2/15/2042
Pennsylvania - 4.3%	2,440 6,250 1,000	Pennsylvania State Higher Education Assistance Agency Revenue Bonds, Series A, 6.125% due 12/15/2010 (a) (c) Pennsylvania State Higher Educational Facilities Authority Revenue Bonds (University of Pennsylvania Medical Center Health System), Series A, 6.25% due 1/15/2031 Philadelphia, Pennsylvania, Authority for Industrial Development

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1,355 Revenue Bonds (Arbor House Inc. Project), Series E, 6.10% due Philadelphia, Pennsylvania, Authority for Industrial Development  
 9,280 Revenue Bonds (Rieder House Project), Series A, 6.10% due 7/01 Sayre, Pennsylvania, Health Care Facilities Authority, Revenue Healthcare System), Series B, 7.125% due 12/01/2011 (a)

BlackRock MuniVest Fund, Inc.  
 Schedule of Investments as of November 30, 2007 (Unaudited) (in Thousands)

State	Face Amount	Municipal Bonds
	\$ 1,340	Sayre, Pennsylvania, Health Care Facilities Authority, Revenue (Guthrie Healthcare System), Series A, 6.25% due 12/01/2011 (a)
	410	Sayre, Pennsylvania, Health Care Facilities Authority, Revenue (Guthrie Healthcare System), Series A, 6.25% due 12/01/2018
South Carolina - 2.7%	1,000	Georgetown County, South Carolina, Environmental Improvement R (International Paper Company Project), AMT, Series A, 5.55% due
	9,700	Lexington County, South Carolina, Health Services District Inc Refunding Bonds, 5% due 11/01/2032
	5,000	Richland County, South Carolina, Environmental Improvement Rev (International Paper), AMT, 6.10% due 4/01/2023
South Dakota - 0.4%	2,605	South Dakota State Health and Educational Facilities Authority (Sanford Health), 5% due 11/01/2040
Tennessee - 4.5%	4,120	Shelby County, Tennessee, Health, Educational and Housing Faci Revenue Refunding Bonds (Methodist Healthcare), 6.50% due 9/01
	21,450	Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, S due 9/01/2026
Texas - 12.7%	5,000	Austin, Texas, Convention Center Revenue Bonds (Convention Ent First Tier, Series A, 6.70% due 1/01/2011 (a)
	1,290	Austin, Texas, Convention Center Revenue Bonds (Convention Ent First Tier, Series A, 6.70% due 1/01/2011 (a)
	3,055	Brazos River Authority, Texas, PCR, Refunding (TXU Energy Comp AMT, Series A, 7.70% due 4/01/2033
	11,460	Brazos River, Texas, Harbor Navigation District, Brazoria Coun Revenue Refunding Bonds (Dow Chemical Company Project), AMT, S due 5/15/2033
	3,000	Gregg County, Texas, Health Facilities Development Corporation Bonds (Good Shepherd Medical Center Project), 6.875% due 10/01
	10,250	Guadalupe-Blanco River Authority, Texas, Sewage and Solid Wast Revenue Bonds (E. I. du Pont de Nemours and Company Project), due 4/01/2026
	6,000	Gulf Coast Waste Disposal Authority, Texas, Revenue Refunding Paper Company), AMT, Series A, 6.10% due 8/01/2024
	5,500	Harris County-Houston Sports Authority, Texas, Revenue Refundi Senior Lien, Series G, 5.75% due 11/15/2020 (c)
	1,790	Houston, Texas, Industrial Development Corporation Revenue Bon 6.375% due 1/01/2023
	155	Mansfield, Texas, Independent School District, GO, Refunding,
	9,355	Matagorda County, Texas, Navigation District Number 1, Revenue (Centerpoint Energy Project), 5.60% due 3/01/2027
	5,225	Midway, Texas, Independent School District, GO, Refunding, 6.1

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	2,700	Port Corpus Christi, Texas, Revenue Refunding Bonds (Celanese 6.45% due 11/01/2030)
	5,000	Red River Authority, Texas, PCR, Refunding (Celanese Project), 6.70% due 11/01/2030
	1,495	Texas State Affordable Housing Corporation, S/F Mortgage Revenue Fighter and Law Enforcement or Security Officer Home Loan Program Series B, 5.25% due 9/01/2039 (d)
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Vermont - 0.2%	1,000	Vermont Educational and Health Buildings Financing Agency, Development Mental Health Revenue Bonds (Howard Center for Human Services) 6.375% due 6/15/2022
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State	Face Amount	Municipal Bonds
-----		
Virginia - 0.6%	\$ 1,425	Chesterfield County, Virginia, IDA, PCR (Virginia Electric and Gas Series A, 5.875% due 6/01/2017)
	2,250	Fairfax County, Virginia, EDA, Residential Care Facilities, Mortgage Refunding Bonds (Goodwin House, Inc.), 5.125% due 10/01/2042
-----		
Washington - 3.5%	3	Energy Northwest, Washington, Electric Revenue Refunding Bonds Series 255, 8.042% due 7/01/2018 (h) (m)
	2,355	Seattle, Washington, Housing Authority Revenue Bonds (Replacement) 6.125% due 12/01/2032
	408	Washington State, GO, Trust Receipts, Class R, Series 6, 7.982%
	14,320	Washington State Public Power Supply System, Revenue Refunding Project Number 1), Series B, 7.125% due 7/01/2016
-----		
Wisconsin - 1.7%	1,765	Milwaukee, Wisconsin, Revenue Bonds (Air Cargo), AMT, 6.50% due 11/15/2032
	5,000	Wisconsin State Health and Educational Facilities Authority, Mortgage (Hudson Memorial Hospital), 5.70% due 1/15/2029 (j)
	3,040	Wisconsin State Health and Educational Facilities Authority Revenue Bonds (SynergyHealth Inc.), 6% due 11/15/2032
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U.S. Virgin Islands - 1.5%	8,000	Virgin Islands Government Refinery Facilities, Revenue Refunding Bonds (Coker Project), AMT, 6.50% due 7/01/2021
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		Total Municipal Bonds (Cost - \$761,048) - 135.8%
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Municipal Bonds Held in Trust (r)

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Illinois - 7.7%	14,000	Chicago, Illinois, O'Hare International Airport, General Airport Revenue Bonds, Third Lien, AMT, Series A, 5.75% due 1/01/2020 (c)
	17,080	Chicago, Illinois, O'Hare International Airport Revenue Bonds, Series B-2, 6% due 1/01/2027 (c)
	2,975	Kane and De Kalb Counties, Illinois, Community Unit School District GO, 5.75% due 2/01/2018 (f)
	2,710	Kane and De Kalb Counties, Illinois, Community Unit School District GO, 5.75% due 2/01/2019 (f)



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	4,780	Kane and De Kalb Counties, Illinois, Community Unit School District GO, 5.75% due 2/01/2021 (f)
Massachusetts - 3.6%	20,000	Massachusetts State School Building Authority, Dedicated Sales Series A, 5% due 8/15/2030 (i)
New York - 7.4%	13,500	New York City, New York, City Transitional Finance Authority Revenue Future Tax Secured, Series B, 6.25% due 11/15/2018
	26,750	New York State Dormitory Authority, State University Education Revenue Refunding Bonds, Series 1989, 6% due 5/15/2010 (c)
Oregon - 1.2%	6,610	Portland, Oregon, Sewer System Revenue Bonds, Series A, 5.75%
Texas - 6.5%	20,970	Harris County, Texas, Health Facilities Development Corporation Bonds (School Health Care System), Series B, 5.75% due 7/01/2010
	12,500	San Antonio, Texas, Electric and Gas Revenue Bonds, Series A, due 2/01/2010 (a)
Washington - 9.0%	11,660	Energy Northwest, Washington, Electric Revenue Refunding Bonds (Generating Station), Series A, 5.75% due 7/01/2018 (c)
	7,015	Energy Northwest, Washington, Electric Revenue Refunding Bonds (Generating Station), Series B, 6% due 7/01/2018 (h)
	14,700	Energy Northwest, Washington, Electric Revenue Refunding Bonds (Number 1), Series B, 6% due 7/01/2017 (c)
	15,385	Washington State, Various Purpose, GO, Series B, 6% due 1/01/2010
		Total Municipal Bonds Held in Trust (Cost - \$201,037) - 35.4%

BlackRock MuniVest Fund, Inc.

Schedule of Investments as of November 30, 2007 (Unaudited)

(in Thousands)

Shares Held	Short-Term Securities
11,100	Merrill Lynch Institutional Tax-Exempt Fund, 3.43% (o) (p)
Total Short-Term Securities (Cost - \$11,100) - 1.9%	
Total Investments (Cost - \$973,185*) - 173.1%	
Other Assets Less Liabilities - 1.0%	
Liability for Trust Certificates, Including Interest Expense Payable - (57.2%)	
Preferred Stock, at Redemption Value - (57.2%)	
Net Assets Applicable to Common Stock - 100.0%	

\* The cost and unrealized appreciation (depreciation) of investments as of November 30, 2007, as computed for federal income tax purposes, were as follows:

Aggregate cost

\$ 878,483

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Gross unrealized appreciation	\$ 43,787
Gross unrealized depreciation	(7,743)
Net unrealized appreciation	\$ 36,044

- (a) Prerefunded.
- (b) FNMA Collateralized.
- (c) MBIA Insured.
- (d) FNMA/GNMA Collateralized.
- (e) Escrowed to maturity.
- (f) FGIC Insured.
- (g) Radian Insured.
- (h) AMBAC Insured.
- (i) FSA Insured.
- (j) FHA Insured.
- (k) FHLMC Collateralized.
- (l) Security may have a maturity of more than one year at time of issuance, but has variable rate and demand features that qualify it as a short-term security. The rate disclosed is that currently in effect. This rate changes periodically based upon prevailing market rates.
- (m) The rate disclosed is that currently in effect. This rate changes periodically and inversely based upon prevailing market rates.
- (n) XL Capital Insured.
- (o) Investments in companies considered to be an affiliate of the Fund, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

Affiliate	Net Activity	Dividend Income
Merrill Lynch Institutional Tax-Exempt Fund	3,177	\$69

- (p) Represents the current yield as of November 30, 2007.
- (q) Commonwealth Guaranteed.

BlackRock MuniVest Fund, Inc.  
 Schedule of Investments as of November 30, 2007 (Unaudited) (in Thousands)

- (r) Securities represent underlying bonds transferred to a separate securitization trust established in a tender option bond transaction in which the Fund may have acquired the residual interest certificates. These securities serve as collateral in a financing transaction.
- o Forward interest rate swaps outstanding as of November 30, 2007 were as follows:

	Notional Amount	Unrealized Depreciation
Pay a fixed rate of 3.925% and received a floating rate based on 1-week (SIFMA) Municipal Swap Index Rate		
Broker, JPMorgan Chase Expires February 2028	\$ 17,250	\$ (545)

Item 2 - Controls and Procedures

2(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")) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities and Exchange Act of 1934, as amended.

2(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) 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

Certifications - Attached hereto

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.

BlackRock MuniVest Fund, Inc.

By: /s/ Donald C. Burke  
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Donald C. Burke,  
Chief Executive Officer of  
BlackRock MuniVest Fund, Inc.

Date: January 16, 2008

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: /s/ Donald C. Burke  
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Donald C. Burke,  
Chief Executive Officer (principal executive officer) of  
BlackRock MuniVest Fund, Inc.

Date: January 16, 2008

By: /s/ Neal J. Andrews  
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Neal J. Andrews,  
Chief Financial Officer (principal financial officer) of  
BlackRock MuniVest Fund, Inc.

Date: January 16, 2008

