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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 Ch... Project 1), Series A, 6.75% due 7/01/2029 |
| | 2,100 | Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Ch... Project), Series E, 7.25% due 7/01/2031 |
| | 500 | Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Ch... Project), Series I, 6.10% due 7/01/2024 |
| | 1,000 | Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Ch... Project), Series I, 6.30% due 7/01/2031 |
| | 1,545 | Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Pima Schools Project), Series O, 5% due 7/01/2026 |
| | 560 | Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Pima 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 |
| ----- | | |
| 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 A, 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. 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 3/01/2020 |
| | 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 9/01/2029 |
| | 3,500 | Milledgeville-Baldwin County, Georgia, Development Authority Revenue Bonds (Georgia College and State University Foundation), 5.625% due 9/01/2029 |
| | 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 Bond Rehabilitation Providers Facilities), Series A, 6% due 7/01/20 |
| | 2,695 | Illinois State Finance Authority, Revenue Bonds (Community Reh Facilities), 4.625% due 7/01/2027 |
| | 12 | Kane and De Kalb Counties, Illinois, Community Unit School Dis DRIVERS, Series 283, 7.545% due 2/01/2018 (f)(m) |
| | 1,005 | McLean and Woodford Counties, Illinois, Community Unit School GO, Refunding, 6.25% due 12/01/2014 (i) |
| | 845 | McLean and Woodford Counties, Illinois, Community Unit School 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 Series A, 6.50% due 11/01/2010 (a)(i) |
| | 505 | Will County, Illinois, School District Number 122 (New Lenox Elementary 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 2/15/2023 |
| | 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 12/01/2023 |
| ----- | | |
| Louisiana - 3.5% | 8,720 | Louisiana Public Facilities Authority, Hospital Revenue Bonds (Missionaries of Our Lady Health System, Inc.), Series A, 5% due 12/01/2023 |
| | 11,660 | Louisiana Public Facilities Authority, Hospital Revenue Bonds (Missionaries of Our Lady Health System, Inc.), Series A, 5.25% due 12/01/2023 |
| ----- | | |
| Maine - 0.3% | 775 | Portland, Maine, Housing Development Corporation, Senior Living (Avesta Housing Development Corporation Project), Series A, 5.00% due 12/01/2023 |
| | 1,190 | Portland, Maine, Housing Development Corporation, Senior Living (Avesta Housing Development Corporation Project), Series A, 6.00% due 12/01/2023 |
| ----- | | |
| 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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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 6/15/2015 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75% due 6/15/2015 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.50% due 6/15/2015 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.75% due 6/15/2015 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) |
| ----- | | |
| 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 |
| ----- | | |

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

| 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 |
| ----- | | |
| 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 |
| ----- | | |
| | | Total Municipal Bonds (Cost - \$761,048) - 135.8% |
| ----- | | |

Municipal Bonds Held in Trust (r)

| | | |
|-----------------|--------|--|
| ----- | | |
| 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

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

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

Date: January 16, 2008

By: /s/ Neal J. Andrews

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

Date: January 16, 2008

