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BLACKROCK MUNIVEST FUND INC
Form N-CSRS
May 06, 2008

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSRS

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT
INVESTMENT COMPANIES

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 - 02/29/2008

Item 1 - Report to Stockholders

EQUITIES FIXED INCOME REAL ESTATE
LIQUIDITY ALTERNATIVES BLACKROCK SOLUTIONS

BlackRock MuniVest Fund, Inc.
(MVF)

BLACKROCK

SEMI-ANNUAL REPORT
FEBRUARY 29, 2008 | (UNAUDITED)

NOT FDIC INSURED
MAY LOSE VALUE
NO BANK GUARANTEE

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A Letter to Shareholders

Dear Shareholder

Financial markets weathered intense bouts of volatility in 2007, only to enter 2008 with no relief. January and February proved to be trying months for equities, but strong ones for some areas of the bond market, as fears of an economic recession swelled. The Federal Reserve Board (the "Fed"), after cutting the target federal funds rate 100 basis points (1%) between September 2007 and year-end, more than matched those cuts in January alone. Responding to a slowing economy and continued fallout from chaos in the credit markets, the Fed cut interest rates 75 basis points in a rare unscheduled session on January 22, and followed with a 50-basis-point cut at its regular meeting on January 30. Another 75-basis-point cut on March 18 brought the target rate to 2.25%.

Reverberations from the U.S. subprime mortgage collapse, and the associated liquidity and credit crisis, continue to permeate global financial markets. The S&P 500 Index of U.S. stocks was down in February, marking the fourth consecutive month of negative returns. International markets, while not unscathed, generally have outperformed their U.S. counterparts so far in 2008. Emerging markets, benefiting from stronger economic growth rates, have done particularly well. In fixed income markets, fears related to the economic slowdown and related credit crisis have led to a prolonged flight to quality. Investors have largely shunned bonds associated with the housing and credit markets in favor of higher-quality government issues. The yield on 10-year Treasury issues, which touched 5.30% in June 2007 (its highest level in five years), fell to 4.04% by year-end and to 3.53% by the end of February, while prices correspondingly rose.

After setting a new-issuance record in 2007, supply in the municipal bond market has been on the decline for four consecutive months (measured year over year). The market has struggled with concerns around the creditworthiness of monoline bond insurers and the failure of auctions for auction rate securities, driving yields higher and prices lower across the curve. By period-end, municipal bonds were trading at higher yields than their Treasury counterparts, a very unusual occurrence by historical standards.

Against this backdrop, the major benchmark indexes posted mixed results for the current reporting period, generally reflecting heightened investor risk aversion:

| | |
|---|---------|
| Total Returns as of February 29, 2008 | 6-month |
| ----- | |
| U.S. equities (S&P 500 Index) | - 8.79 |
| ----- | |
| Small cap U.S. equities (Russell 2000 Index) | -12.91 |
| ----- | |
| International equities (MSCI Europe, Australasia, Far East Index) | - 4.71 |
| ----- | |

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| | |
|---|--------|
| Fixed income (Lehman Brothers U.S. Aggregate Bond Index) | + 5.67 |
| Tax-exempt fixed income (Lehman Brothers Municipal Bond Index) | - 0.60 |
| High yield bonds (Lehman Brothers U.S. Corporate High Yield 2% Issuer Capped Index) | - 1.39 |

Past performance is no guarantee of future results. Index performance shown for illustrative purposes only. You cannot invest directly in an index.

As you navigate today's volatile markets, we encourage you to review your investment goals with your financial professional and to make portfolio changes, as needed. For more up-to-date commentary on the economy and financial markets, we invite you to visit www.blackrock.com/funds. As always, we thank you for entrusting BlackRock with your investment assets, and we look forward to continuing to serve you in the months and years ahead.

Sincerely,

/s/ Rob Kapito

Rob Kapito
President, BlackRock Advisors, LLC

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THIS PAGE NOT PART OF YOUR FUND REPORT

Fund Summary as of February 29, 2008 (Unaudited)

Investment Objective

BlackRock MuniVest Fund, Inc. (MVF) seeks to provide shareholders with as high a level of current income exempt from federal income taxes, as is consistent with its investment policies and prudent investment management, by investing primarily in a portfolio of long-term, investment grade municipal obligations, the interest on which is exempt from federal income taxes in the opinion of bond counsel to the issuer.

Performance

For the six months ended February 29, 2008, the Fund returned -3.87% based on market price, with dividends reinvested. The Fund's return based on net asset value ("NAV") was -4.61%, with dividends reinvested. For the same period, the Lipper General Municipal Debt Funds (Leveraged) category posted an average return of -6.37% on a NAV basis. The Fund's recent NAV performance reflected our neutral duration position, above-average yield relative to our Lipper peers, and underweighting in insured municipal bonds, a segment of the market that has suffered as pressure on municipal bond insurers affected the entire insured municipal marketplace.

Fund Information

| | |
|--|--------------------|
| Symbol on American Stock Exchange | MVF |
| Initial Offering Date | September 29, 1988 |
| Yield on Closing Market Price as of February 29, 2008 (\$8.74)* | 5.90% |

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| | |
|--|--------|
| Tax Equivalent Yield** | 9.08% |
| Current Monthly Distribution per share of Common Stock*** | \$.043 |
| Current Annualized Distribution per share of Common Stock*** | \$.516 |
| Leverage as of February 29, 2008**** | 38% |

- * Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.
- ** Tax equivalent yield assumes the maximum federal tax rate of 35%.
- *** The distribution is not constant and is subject to change.
- **** As a percentage of managed assets, which is the total assets of the Fund (including any assets attributable to Auction Market Preferred Stock ("Preferred Stock") that may be outstanding) minus the sum of accrued liabilities (other than debt representing financial leverage).

The table below summarizes the changes in the Fund's market price and net asset value per share:

| | 2/29/08 | 8/31/07 | Change | High | Low |
|-----------------------|---------|---------|---------|---------|--------|
| Market Price | \$8.74 | \$9.35 | (6.52%) | \$10.02 | \$8.54 |
| Net Asset Value | \$8.71 | \$9.39 | (7.24%) | \$ 9.63 | \$8.71 |

The following charts show the Fund's portfolio composition and credit quality allocations of the Fund's long-term investments:

Portfolio Composition

| Sector | 2/29/08 | 8/31/07 |
|--------------------------------------|---------|---------|
| Hospital | 24% | 29% |
| Industrial & Pollution Control | 15 | 16 |
| Education | 9 | 9 |
| Power | 9 | 8 |
| City, County & State | 8 | 8 |
| Transportation | 8 | 6 |
| Tax Revenue | 7 | 6 |
| Tobacco | 7 | 6 |
| Water & Sewer | 5 | 5 |
| Housing | 4 | 3 |
| Lease Revenue | 4 | 4 |

Credit Quality Allocations*

| Credit Rating | 2/29/08 | 8/31/07 |
|-------------------|---------|---------|
| AAA/Aaa | 37% | 33% |
| AA/Aa | 16 | 17 |
| A/A | 25 | 28 |
| BBB/Baa | 17 | 18 |
| BB/Ba | 2 | 2 |
| B/B | 1 | 1 |
| Not Rated** | 2 | 1 |

- * Using the higher of Standard & Poor's or Moody's Investors Service ratings.
- ** The investment advisor has deemed certain of these non-rated securities to be of investment grade quality. As of February 29, 2008, and August 31,

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2007, the market value of these securities was \$5,570,946 representing 1% and \$6,544,144 representing 1%, respectively, of the Fund's long-term investments.

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BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

The Benefits and Risks of Leveraging

BlackRock MuniVest Fund, Inc. utilizes leveraging to seek to enhance the yield and net asset value of its common stock ("Common Stock"). However, these objectives cannot be achieved in all interest rate environments. To leverage, the Fund issues preferred stock ("Preferred Stock"), which pays dividends at prevailing short-term interest rates, and invests the proceeds in long-term municipal bonds. The interest earned on these investments, net of dividends to Preferred Stock, is paid to Common Stock shareholders in the form of dividends, and the value of these portfolio holdings is reflected in the per share net asset value of the Fund's Common Stock. However, in order to benefit Common Stock shareholders, the yield curve must be positively sloped; that is, short-term interest rates must be lower than long-term interest rates. At the same time, a period of generally declining interest rates will benefit Common Stock shareholders. If either of these conditions change, then the risks of leveraging will begin to outweigh the benefits.

To illustrate these concepts, assume a fund's Common Stock capitalization of \$100 million and the issuance of Preferred Stock for an additional \$50 million, creating a total value of \$150 million available for investment in long-term municipal bonds. If prevailing short-term interest rates are approximately 3% and long-term interest rates are approximately 6%, the yield curve has a strongly positive slope. The fund pays dividends on the \$50 million of Preferred Stock based on the lower short-term interest rates. At the same time, the fund's total portfolio of \$150 million earns the income based on long-term interest rates. Of course, increases in short-term interest rates would reduce (and possibly eliminate) the dividends on the Common Stock.

In this case, the dividends paid to Preferred Stock shareholders are significantly lower than the income earned on the fund's long-term investments, and therefore the Common Stock shareholders are the beneficiaries of the incremental yield. However, if short-term interest rates rise, narrowing the differential between short-term and long-term interest rates, the incremental yield pickup on the Common Stock will be reduced or eliminated completely. At the same time, the market value of the fund's Common Stock (that is, its price as listed on the American Stock Exchange) may, as a result, decline. Furthermore, if long-term interest rates rise, the Common Stock's net asset value will reflect the full decline in the price of the portfolio's investments, since the value of the fund's Preferred Stock does not fluctuate. In addition to the decline in net asset value, the market value of the fund's Common Stock may also decline.

As of February 29, 2008, the Fund's leverage amount, due to Preferred Stock, was 38% of managed assets before the deduction of Preferred Stock.

As a part of its investment strategy, the Fund may invest in certain securities whose potential income return is inversely related to changes in a floating interest rate ("inverse floaters"). In general, income on inverse floaters will decrease when short-term interest rates increase and increase when short-term interest rates decrease. Investments in inverse floaters may be characterized as derivative securities and may subject the Fund to the risks of reduced or eliminated interest payments and losses of invested principal. In addition, inverse floaters have the effect of providing investment leverage and, as a result, the market value of such securities will generally be more volatile than

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that of fixed rate, tax-exempt securities. To the extent the Fund invests in inverse floaters, the market value of the Fund's portfolio and the net asset value of the Fund's shares may also be more volatile than if the Fund did not invest in these securities. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

Swap Agreements

The Fund may invest in swap agreements, which are over-the-counter contracts in which one party agrees to make periodic payments based on the change in market value of a specified bond, basket of bonds or index in return for periodic payments based on a fixed or variable interest rate or the change in market value of a different bond, basket of bonds or index. Swap agreements may be used to obtain or reduce exposure to a bond or market without owning or taking physical custody of securities. Swap agreements involve the risk that the party with whom the Fund has entered into the swap will default on its obligation to pay the Fund and the risk that the Fund will not be able to meet its obligations to pay the other party to the agreement.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Schedule of Investments as of February 29, 2008 (Unaudited)

(Percentages shown are based on Net Assets)

| Municipal Bonds | Par (000) | Value |
|---|--------------|---------------------|
| Alabama -- 3.0% | | |
| Camden, Alabama, IDB, Exempt Facilities Revenue Bonds (Weyerhaeuser Company), Series A, 6.125% due 12/01/2024 | \$ 2,550 | \$ 2,554,105 |
| Huntsville, Alabama, Health Care Authority Revenue Bonds, Series A, 5.75% due 6/01/2011 (a) | 3,500 | 3,791,305 |
| Prattville, Alabama, IDB, Environmental Improvement Revenue Bonds (International Paper Company Projects), AMT, Series A, 4.75% due 12/01/2030 | 6,500 | 4,858,555 |
| Selma, Alabama, IDB, Environmental Improvement Revenue Refunding Bonds (International Paper Company Project), Series B, 5.50% due 5/01/2020 | 5,000 | 4,798,250 |
| | | ----- 16,002,215 |
| Arizona -- 2.2% | | |
| Maricopa County, Arizona, IDA, Education Revenue Bonds (Arizona Charter Schools Project 1), Series A, 6.75% due 7/01/2029 | 4,100 | 3,606,893 |
| Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Charter Schools Project): | | |
| Series E, 7.25% due 7/01/2031 | 2,055 | 2,098,998 |
| Series I, 6.10% due 7/01/2024 | 500 | 476,570 |
| Series I, 6.30% due 7/01/2031 | 1,000 | 947,380 |
| Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Arizona Charter Schools Project II), Series A: | | |
| 6.75% due 7/01/2011 (a) | 560 | 620,015 |
| 6.75% due 7/01/2021 | 940 | 951,609 |

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| | | |
|--|--------|------------|
| Pima County, Arizona, IDA, Education Revenue Refunding Bonds (Arizona Charter Schools Project), Series O, 5% due 7/01/2026 | 1,545 | 1,269,913 |
| Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, 5% due 12/01/2037 | 2,000 | 1,622,660 |
| | | ----- |
| | | 11,594,038 |
| ===== | | |
| California -- 14.4% | | |
| California Health Facilities Financing Authority Revenue Bonds (Kaiser Permanente), Series A, 5.25% due 4/01/2039 | 11,100 | 10,106,328 |
| California State Public Works Board, Lease Revenue Bonds (Department of Corrections), Series C: 5.50% due 6/01/2022 | 5,000 | 5,098,250 |
| 5.50% due 6/01/2023 | 6,000 | 6,093,960 |
| California State Public Works Board, Lease Revenue Bonds (Department of Mental Health -- Coalinga State Hospital), Series A, 5.125% due 6/01/2029 | 11,075 | 10,307,945 |
| California State, GO: 5.50% due 4/01/2014 (a) | 550 | 606,034 |
| 5.50% due 4/01/2030 | 10 | 9,949 |
| California State, Various Purpose, GO, 5.50% due 11/01/2033 | 11,250 | 11,276,212 |
| California Statewide Communities Development Authority, Health Facility Revenue Bonds (Memorial Health Services), Series A, 6% due 10/01/2023 | 5,240 | 5,366,284 |
| Chula Vista, California, IDR (San Diego Gas and Electric Company), AMT, Series B, 5% due 12/01/2027 | 1,250 | 1,126,400 |
| Golden State Tobacco Securitization Corporation of California, Tobacco Settlement Revenue Bonds (a): Series A-3, 7.875% due 6/01/2013 | 10,725 | 12,732,184 |
| Series A-4, 7.80% due 6/01/2013 | 3,750 | 4,439,175 |
| Series A-5, 7.875% due 6/01/2013 | 1,425 | 1,691,689 |
| Series B, 5.375% due 6/01/2010 | 8,000 | 8,390,640 |
| | | ----- |
| | | 77,245,050 |
| ===== | | |
| Colorado -- 0.6% | | |
| Colorado HFA, Revenue Refunding Bonds (S/F Program), AMT, Senior Series A-2: 6.60% due 5/01/2028 | 540 | 557,842 |
| 7.50% due 4/01/2031 | 180 | 186,291 |
| Colorado Health Facilities Authority Revenue Bonds (Lutheran Medical Center), Series A, 5.25% due 6/01/2034 | 3,000 | 2,682,360 |
| | | ----- |
| | | 3,426,493 |
| ===== | | |
| Connecticut -- 0.5% | | |
| Mohegan Tribe Indians Gaming Authority, Connecticut, Public Improvement Revenue Refunding Bonds (Priority Distribution), 6.25% due 1/01/2031 | 2,810 | 2,627,434 |
| ===== | | |
| Florida -- 7.6% | | |
| Highlands County, Florida, Health Facilities Authority, Hospital Revenue Bonds (Adventist Health System): ARS, VRDN, Series F, 8% due 11/15/2035 (b) (c) | 3,000 | 3,000,000 |
| Series C, 5.25% due 11/15/2036 | 18,300 | 16,875,162 |
| Hillsborough County, Florida, IDA, Hospital Revenue Bonds (H. Lee Moffitt Cancer Center Project), | | |

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|--|--------|------------|
| Series A, 5.25% due 7/01/2037 | 6,500 | 5,773,300 |
| Orange County, Florida, Health Facilities Authority, Hospital Revenue Bonds (Adventist Health System), 5.625% due 11/15/2012 (a) | 10,320 | 11,343,847 |
| Sunshine State Governmental Finance Commission, CP, 8% due 3/10/2008 | 4,000 | 4,000,000 |
| | | ----- |
| | | 40,992,309 |
| ===== | | |

Portfolio Abbreviations

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

| | |
|---------|--|
| AMT | Alternative Minimum Tax (subject to) |
| ARS | Auction Rate Security |
| CP | Commercial Paper |
| 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 |

See Notes to Financial Statements.

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Schedule of Investments (continued) (Percentages shown are based on Net Assets)

| Municipal Bonds | Par (000) | Value |
|---|--------------|------------|
| ===== | | |
| Georgia -- 5.1% | | |
| Gainesville, Georgia, Redevelopment Authority, Educational Facilities Revenue Refunding Bonds (Riverside Military Academy), 5.125% due 3/01/2037 | \$ 1,100 | \$ 896,379 |
| Georgia Municipal Electric Authority, Power Revenue Refunding Bonds: | | |
| Series W, 6.60% due 1/01/2018 (g) | 250 | 283,203 |
| Series W, 6.60% due 1/01/2018 | 4,595 | 5,208,708 |
| Series Y, 10% due 1/01/2010 (g) | 250 | 280,968 |
| Georgia State, GO, Series E, 5% due 8/01/2016 | 2,500 | 2,700,750 |
| Houston County, Georgia, Hospital Authority Revenue Bonds (Houston Heart Institute Project), 5.25% due 10/01/2035 | 5,000 | 4,572,300 |
| Milledgeville-Baldwin County, Georgia, Development Authority Revenue Bonds (Georgia College and | | |

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| | | |
|---|--------|------------|
| State University Foundation) (a): | | |
| 5.50% due 9/01/2014 | 4,390 | 4,888,528 |
| 5.625% due 9/01/2014 | 3,000 | 3,362,220 |
| Monroe County, Georgia, Development Authority, PCR, Refunding (Oglethorpe Power Corporation -- Scherer), Series A, 6.80% due 1/01/2011 | 4,785 | 5,156,555 |
| | | ----- |
| | | 27,349,611 |
| ===== | | |
| Idaho -- 0.5% | | |
| Idaho Housing Agency, S/F Mortgage Revenue Refunding Bonds, AMT, Series E-2, 6.90% due 1/01/2027 | 295 | 304,030 |
| Idaho Housing and Financing Association, S/F Mortgage Revenue Bonds, AMT, Series J-1, Class III, 5% due 1/01/2028 | 2,380 | 2,266,188 |
| | | ----- |
| | | 2,570,218 |
| ===== | | |
| Illinois -- 12.8% | | |
| Chicago, Illinois, O'Hare International Airport, General Airport Revenue Refunding Bonds, Third Lien, AMT, Series A, 5.75% due 1/01/2019 (h) | 5,000 | 5,080,300 |
| Chicago, Illinois, O'Hare International Airport Revenue Bonds, Third Lien, AMT, Series B-2, 6% due 1/01/2029 (f) | 11,200 | 11,308,528 |
| Chicago, Illinois, S/F Mortgage Revenue Bonds, AMT, Series C, 7% due 3/01/2032 (i) (j) | 75 | 77,258 |
| Hodgkins, Illinois, Environmental Improvement Revenue Bonds (Metro Biosolids Management LLC Project), AMT, 6% due 11/01/2023 | 10,000 | 9,889,000 |
| Illinois Development Finance Authority Revenue Bonds (Community Rehabilitation Providers Facilities), Series A, 6.50% due 7/01/2022 | 2,140 | 2,211,562 |
| Illinois Development Finance Authority, Revenue Refunding Bonds (Community Rehabilitation Providers Facilities), Series A, 6% due 7/01/2015 | 465 | 468,618 |
| Illinois State Finance Authority, Revenue Bonds (Community Rehabilitation Providers Facilities), 4.625% due 7/01/2027 | 2,695 | 2,211,167 |
| Illinois State Finance Authority, Revenue Refunding Bonds (Advocate Health and Hospital Corporation), VRDN, Series B-3, 7.19% due 11/01/2038 (c) (k) | 6,000 | 6,000,000 |
| Kane and De Kalb Counties, Illinois, Community Unit School District Number 302, GO, DRIVERS, Series 283, 7.807% due 2/01/2018 (e) (l) | 13 | 15,325 |
| McLean and Woodford Counties, Illinois, Community Unit School District Number 005, GO, Refunding (b): 6.25% due 12/01/2014 | 1,005 | 1,105,982 |
| 6.375% due 12/01/2016 | 845 | 934,224 |
| Metropolitan Pier and Exposition Authority, Illinois, Dedicated State Tax Revenue Refunding Bonds (McCormick Place Expansion Project), Series B, 5.75% due 6/15/2023 (h) | 18,550 | 19,218,357 |
| Regional Transportation Authority, Illinois, Revenue Bonds: Series A, 7.20% due 11/01/2020 (k) | 3,500 | 4,115,090 |
| Series C, 7.75% due 6/01/2020 (l) | 4,000 | 4,966,640 |
| Will County, Illinois, School District Number 122 (New Lenox Elementary), GO, Series A (b): 6.50% due 11/01/2010 (a) | 395 | 426,948 |

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| | | |
|---|--------|------------|
| 6.50% due 11/01/2013 | 505 | 545,844 |
| | | ----- |
| | | 68,574,843 |
| ===== | | |
| Indiana -- 6.8% | | |
| Indiana Health and Educational Facilities Financing Authority, Hospital Revenue Bonds (Clarian Health Obligation), Series A, 5.25% due 2/15/2040 | 11,300 | 10,027,846 |
| Indiana Transportation Finance Authority, Highway Bonds, Series A, 6.80% due 12/01/2016 | 8,195 | 9,392,371 |
| Indianapolis, Indiana, Local Public Improvement Bond Bank, Revenue Refunding Bonds, Series D, 6.75% due 2/01/2014 | 15,335 | 17,083,650 |
| | | ----- |
| | | 36,503,867 |
| ===== | | |
| Iowa -- 1.1% | | |
| Iowa Financing Authority, S/F Mortgage Revenue Refunding Bonds, AMT, Series E, 5.15% due 7/01/2032 (j) | 6,510 | 5,906,263 |
| ===== | | |
| Kansas -- 0.7% | | |
| Sedgwick and Shawnee Counties, Kansas, S/F Mortgage Revenue Bonds (Mortgage-Backed Securities Program), AMT, Series A-4, 5.95% due 12/01/2033 (j) | 3,805 | 3,853,171 |
| ===== | | |
| Kentucky -- 2.6% | | |
| Louisville and Jefferson County, Kentucky, Metropolitan Government Health System, Revenue Refunding Bonds (Norton Healthcare, Inc.), 5.25% due 10/01/2036 (m) | 15,900 | 14,120,154 |
| ===== | | |
| Louisiana -- 4.4% | | |
| Louisiana Public Facilities Authority, Hospital Revenue Bonds (Franciscan Missionaries of Our Lady Health System, Inc.), Series A, 5% due 8/15/2033 | 8,720 | 7,734,117 |
| Louisiana Public Facilities Authority, Hospital Revenue Bonds (Franciscan Missionaries of Our Lady Health System, Inc.), Series A, 5.25% due 8/15/2036 | 11,660 | 10,635,552 |
| Louisiana HFA, S/F Mortgage Revenue Bonds (Home Ownership Program), AMT, Series C-2, 5.20% due 6/01/2039 (i) (j) | 6,000 | 5,426,880 |
| | | ----- |
| | | 23,796,549 |
| ===== | | |

See Notes to Financial Statements.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Schedule of Investments (continued) (Percentages shown are based on Net Assets)

| | | |
|-----------------|--------------|-------|
| Municipal Bonds | Par (000) | Value |
|-----------------|--------------|-------|

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| | | |
|---|--------|------------|
| ===== | | |
| Maine -- 0.3% | | |
| Portland, Maine, Housing Development Corporation, Senior Living Revenue Bonds (Avesta Housing Development Corporation Project), Series A: | | |
| 5.70% due 8/01/2021 | \$ 775 | \$ 739,319 |
| 6% due 2/01/2034 | 1,190 | 1,113,007 |
| | | ----- |
| | | 1,852,326 |
| ===== | | |
| Maryland -- 1.0% | | |
| Maryland State Community Development Administration, Department of Housing and Community Development, Residential Revenue Refunding Bonds, AMT, Series D, 4.90% due 9/01/2042 | | |
| | 3,250 | 2,773,225 |
| Maryland State, GO (State and Local Facilities Loan of 2003), First Series, 5.25% due 3/01/2016 | | |
| | 2,500 | 2,740,425 |
| | | ----- |
| | | 5,513,650 |
| ===== | | |
| Massachusetts -- 9.6% | | |
| Boston, Massachusetts, Water and Sewer Commission Revenue Bonds, 9.25% due 1/01/2011 (g) | | |
| | 2,035 | 2,310,600 |
| Massachusetts Bay Transportation Authority, Revenue Refunding Bonds (General Transportation System), Series A, 7% due 3/01/2019 (s) | | |
| | 3,010 | 3,566,459 |
| Massachusetts State, HFA, Housing Revenue Bonds, AMT, Series A, 5.20% due 12/01/2037 | | |
| | 3,000 | 2,749,950 |
| Massachusetts State, HFA, Housing Revenue Refunding Bonds, AMT, Series D, 4.85% due 6/01/2040 | | |
| | 3,000 | 2,536,320 |
| Massachusetts State, HFA, S/F Housing Revenue Bonds, AMT, Series 130, 5% due 12/01/2032 | | |
| | 2,500 | 2,229,675 |
| Massachusetts State Water Resource Authority Revenue Bonds, Series A, 6.50% due 7/15/2019 (g) | | |
| | 30,000 | 34,714,800 |
| Massachusetts State Water Resource Authority, Revenue Refunding Bonds, Series A, 6% due 8/01/2010 (a) (1): | | |
| | 3,480 | 3,753,006 |
| | | ----- |
| | | 51,860,810 |
| ===== | | |
| Michigan -- 5.4% | | |
| Delta County, Michigan, Economic Development Corporation, Environmental Improvement Revenue Refunding Bonds (Mead Westvaco-Escanaba), Series A, 6.25% due 4/15/2012 (a) | | |
| | 2,500 | 2,758,750 |
| Macomb County, Michigan, Hospital Finance Authority, Hospital Revenue Bonds (Mount Clemens General Hospital), Series B: | | |
| 5.75% due 11/15/2025 | 3,715 | 3,387,597 |
| 5.875% due 11/15/2034 | 4,250 | 3,837,070 |
| Michigan State Hospital Finance Authority, Hospital Revenue Refunding Bonds: | | |
| (Crittenton Hospital), Series A, 5.625% due 3/01/2027 | 1,900 | 1,887,935 |
| (Oakwood Obligated Group), Series A, 5% due 7/15/2025 | 2,000 | 1,857,160 |
| Michigan State Hospital Finance Authority, Revenue | | |

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| | | |
|---|--------|------------|
| Refunding Bonds: | | |
| (Henry Ford Health System), Series A, 5.25% due 11/15/2032 | 6,705 | 6,157,537 |
| (Henry Ford Health System), Series A, 5.25% due 11/15/2046 | 9,200 | 8,163,252 |
| (Sinai Hospital), 6.70% due 1/01/2026 | 1,000 | 984,560 |
| | | ----- |
| | | 29,033,861 |
| ===== | | |
| Minnesota -- 1.8% | | |
| Minneapolis, Minnesota, Health Care System | | |
| Revenue Bonds (Allina Health System), Series A, 5.75% due 11/15/2012 (a) | 7,235 | 7,930,356 |
| Saint Cloud, Minnesota, Health Care Revenue | | |
| Refunding Bonds (Saint Cloud Hospital Obligation Group), Series A, 6.25% due 5/01/2017 (b) | 1,405 | 1,502,367 |
| | | ----- |
| | | 9,432,723 |
| ===== | | |
| Mississippi -- 6.5% | | |
| Lowndes County, Mississippi, Solid Waste | | |
| Disposal and PCR, Refunding (Weyerhaeuser | | |
| Company Project): | | |
| Series A, 6.80% due 4/01/2022 | 9,160 | 9,600,413 |
| Series B, 6.70% due 4/01/2022 | 4,500 | 4,674,690 |
| Mississippi Business Finance Corporation, | | |
| Mississippi, PCR, Refunding (System Energy Resources Inc. Project), 5.875% due 4/01/2022 | 20,705 | 20,762,767 |
| | | ----- |
| | | 35,037,870 |
| ===== | | |
| Missouri -- 0.5% | | |
| Missouri State Development Finance Board, | | |
| Infrastructure Facilities Revenue Refunding Bonds | | |
| (Branson), Series A, 5.50% due 12/01/2032 | 2,600 | 2,346,656 |
| Missouri State Housing Development Commission, | | |
| S/F Mortgage Revenue Bonds (Homeowner Loan), AMT, Series A, 7.50% due 3/01/2031 (j) | 195 | 204,666 |
| | | ----- |
| | | 2,551,322 |
| ===== | | |
| Montana -- 1.1% | | |
| Forsyth, Montana, PCR, Refunding (Portland General | | |
| Electric Company), Series A, 5.20% due 5/01/2033 | 6,000 | 6,083,400 |
| ===== | | |
| Nebraska -- 0.0% | | |
| Nebraska Investment Finance Authority, S/F Housing | | |
| Revenue Bonds, AMT, Series C, 6.30% due 9/01/2028 (i) (j) | 10 | 10,119 |
| ===== | | |
| New Hampshire -- 0.5% | | |
| New Hampshire Health and Education Facilities | | |
| Authority, Revenue Refunding Bonds (Elliot Hospital), Series B, 5.60% due 10/01/2022 | 2,675 | 2,682,463 |
| ===== | | |

See Notes to Financial Statements.

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Schedule of Investments (continued) (Percentages shown are based on Net Assets)

| Municipal Bonds | Par (000) | Value |
|--|--------------|--------------|
| <hr/> | | |
| New Jersey -- 5.3% | | |
| New Jersey EDA, Cigarette Tax Revenue Bonds: | | |
| 5.50% due 6/15/2024 | \$ 9,080 | \$ 8,477,088 |
| 5.75% due 6/15/2029 | 2,885 | 2,696,840 |
| 5.50% due 6/15/2031 | 2,855 | 2,558,451 |
| 5.75% due 6/15/2034 | 8,695 | 7,979,488 |
| Tobacco Settlement Financing Corporation of New Jersey, Asset-Backed Revenue Bonds, 7% due 6/01/2013 (a) | | |
| | 5,980 | 6,970,766 |
| | | 28,682,633 |
| <hr/> | | |
| New York -- 0.8% | | |
| New York City, New York, City Transitional Finance Authority Revenue Bonds, RIB, Series 283, 9.08% due 11/15/2015 (e) | | |
| | 1,125 | 1,305,045 |
| New York City, New York, GO, Refunding, Series A, 6.375% due 5/15/2014 (1) | | |
| | 965 | 1,033,370 |
| New York City, New York, GO, Series F, 5.25% due 1/15/2033 | | |
| | 1,980 | 1,942,142 |
| New York State Local Government Assistance Corporation, Revenue Refunding Bonds, Sub-Lien, VRDN, Series 4V, 3.10% due 4/01/2022 (b) (c) | | |
| | 400 | 400,000 |
| | | 4,680,557 |
| <hr/> | | |
| North Carolina -- 1.2% | | |
| Gaston County, North Carolina, Industrial Facilities and Pollution Control Financing Authority, Revenue Bonds (National Gypsum Company Project), AMT, 5.75% due 8/01/2035 | | |
| | 4,105 | 3,529,027 |
| Mecklenburg County, North Carolina, GO, Series B, 5% due 2/01/2016 | | |
| | 2,500 | 2,696,925 |
| | | 6,225,952 |
| <hr/> | | |
| Ohio -- 5.5% | | |
| Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Bonds, Series A-2, 6.50% due 6/01/2047 | | |
| | 27,500 | 27,074,300 |
| Ohio State, Higher Education, GO, Series B, 5% due 11/01/2014 | | |
| | 2,500 | 2,701,225 |
| | | 29,775,525 |
| <hr/> | | |
| Pennsylvania -- 4.5% | | |
| Pennsylvania State Higher Education Assistance Agency Revenue Bonds, Capital Acquisition, 6.125% due 12/15/2010 (a) (h) | | |
| | 2,440 | 2,644,984 |
| Pennsylvania State Higher Educational Facilities Authority Revenue Bonds (University of Pennsylvania Medical Center Health System), | | |

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| | | |
|---|--------|---------------------|
| Series A, 6% due 1/15/2031 | 6,250 | 6,544,938 |
| Philadelphia, Pennsylvania, Authority for Industrial Development, Senior Living Revenue Bonds: (Arbor House Inc. Project), Series E, 6.10% due 7/01/2033 | 1,000 | 950,290 |
| (Rieder House Project), Series A, 6.10% due 7/01/2033 | 1,355 | 1,287,643 |
| Sayre, Pennsylvania, Health Care Facilities Authority, Revenue Bonds (Guthrie Healthcare System), Series B, 7.125% due 12/01/2011 (a) | 9,280 | 11,110,944 |
| Sayre, Pennsylvania, Health Care Facilities Authority, Revenue Refunding Bonds (Guthrie Healthcare System), Series A: 6.25% due 12/01/2011 (a) | 1,340 | 1,487,802 |
| 6.25% due 12/01/2018 | 410 | 428,143 |
| | | ----- 24,454,744 |
| ===== | | |
| South Carolina -- 1.1% | | |
| Georgetown County, South Carolina, Environmental Improvement Revenue Refunding Bonds (International Paper Company Project), AMT, Series A, 5.55% due 12/01/2029 | 1,000 | 873,910 |
| Richland County, South Carolina, Environmental Improvement Revenue Refunding Bonds (International Paper), AMT, 6.10% due 4/01/2023 | 5,000 | 4,887,000 |
| | | ----- 5,760,910 |
| ===== | | |
| South Dakota -- 0.4% | | |
| South Dakota State Health and Educational Facilities Authority Revenue Bonds (Sanford Health), 5% due 11/01/2040 | 2,605 | 2,254,445 |
| ===== | | |
| Tennessee -- 1.2% | | |
| Shelby County, Tennessee, Health, Educational and Facility Board, Hospital Revenue Refunding Bonds (Methodist Healthcare), 6.50% due 9/01/2012 (a) | 4,120 | 4,656,177 |
| Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series A, 5.25% due 9/01/2026 | 1,750 | 1,572,025 |
| | | ----- 6,228,202 |
| ===== | | |
| Texas -- 16.3% | | |
| Austin, Texas, Convention Center Revenue Bonds (Convention Enterprises Inc.), First Tier, Series A, 6.70% due 1/01/2011 (a) | 6,290 | 6,864,654 |
| Brazos River, Texas, Harbor Navigation District, Brazoria County Environmental Revenue Refunding Bonds (Dow Chemical Company Project), AMT, Series A-7, 6.625% due 5/15/2033 | 11,460 | 11,670,635 |
| Brazos River Authority, Texas, PCR, Refunding (TXU Energy Company LLC Project), AMT, Series A, 7.70% due 4/01/2033 | 3,055 | 3,061,996 |
| Gregg County, Texas, Health Facilities Development Corporation, Hospital Revenue Bonds (Good Shepherd Medical Center Project), 6.875% due 10/01/2010 (a) (n) | 3,000 | 3,315,570 |
| Guadalupe-Blanco River Authority, Texas, Sewage and Solid Waste Disposal Facility Revenue Bonds (E. I. du Pont de Nemours and Company Project), AMT, 6.40% due 4/01/2026 | 10,250 | 10,263,633 |

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| | | |
|---|-------|-----------|
| Gulf Coast Waste Disposal Authority, Texas, Revenue Refunding Bonds (International Paper Company), AMT, Series A, 6.10% due 8/01/2024 | 6,000 | 5,771,220 |
| Harris County-Houston Sports Authority, Texas, Revenue Refunding Bonds, Senior Lien, Series G, 5.75% due 11/15/2020 (h) | 5,500 | 5,602,850 |
| Houston, Texas, Industrial Development Corporation Revenue Bonds (Air Cargo), AMT, 6.375% due 1/01/2023 | 1,790 | 1,754,540 |
| Mansfield, Texas, Independent School District, GO, Refunding, 6.625% due 2/15/2015 | 155 | 164,949 |
| Matagorda County, Texas, Navigation District Number 1, Revenue Refunding Bonds (Centerpoint Energy Project), 5.60% due 3/01/2027 | 9,355 | 8,723,444 |
| Midway, Texas, Independent School District, GO, Refunding, 6.125% due 8/15/2014 | 5,225 | 5,571,104 |

See Notes to Financial Statements.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

9

Schedule of Investments (continued) (Percentages shown are based on Net Assets)

| Municipal Bonds | Par (000) | Value |
|---|--------------|--------------|
| ===== | | |
| Texas (concluded) | | |
| Port Corpus Christi, Texas, Revenue Refunding Bonds (Celanese Project), Series A, 6.45% due 11/01/2030 | \$ 2,700 | \$ 2,440,233 |
| Red River Authority, Texas, PCR, Refunding (Celanese Project), AMT, Series B, 6.70% due 11/01/2030 | 5,000 | 4,579,100 |
| San Antonio, Texas, Electric and Gas Revenue Bonds, Series A, 5.75% due 2/01/2010 (a): | 12,500 | 13,164,125 |
| Texas State Department of Housing and Community Affairs, S/F Mortgage Revenue Bonds, AMT, Series B, 5.25% due 9/01/2032 (i)(j) | 5,000 | 4,575,600 |
| | | ----- |
| | | 87,523,653 |
| ===== | | |
| Vermont -- 0.2% | | |
| Vermont Educational and Health Buildings Financing Agency, Developmental and Mental Health Revenue Bonds (Howard Center for Human Services), Series A, 6.375% due 6/15/2022 | 1,000 | 1,017,480 |
| ===== | | |
| Virginia -- 1.3% | | |
| Chesterfield County, Virginia, IDA, PCR (Virginia Electric and Power Company), Series A, 5.875% due 6/01/2017 | 1,425 | 1,484,195 |
| Fairfax County, Virginia, EDA, Residential Care Facilities, Mortgage Revenue Refunding Bonds (Goodwin House, Inc.), 5.125% due 10/01/2037 | 2,000 | 1,693,440 |
| Virginia State, GO, Series B, 5% due 6/01/2017 | 3,525 | 3,786,485 |
| | | ----- |

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| | | |
|---|--------|-------------|
| | | 6,964,120 |
| ===== | | |
| Washington -- 6.6% | | |
| Central Puget Sound Regional Transportation | | |
| Authority, Washington, Sales and Use Tax Revenue | | |
| Bonds, Series A, 5% due 11/01/2036 | 6,000 | 5,668,260 |
| Energy Northwest, Washington, Electric Revenue | | |
| Refunding Bonds, DRIVERS, Series 255, 7.68% | | |
| due 7/01/2018 (e) (k) | 3 | 2,892 |
| Seattle, Washington, Housing Authority Revenue | | |
| Bonds (Replacement Housing Project), 6.125% | | |
| due 12/01/2032 | 2,355 | 2,221,919 |
| Washington State Public Power Supply System, | | |
| Revenue Refunding Bonds (Nuclear Project | | |
| Number 1), Series B, 7.125% due 7/01/2016 | 14,320 | 17,307,295 |
| Washington State, GO, Series B, 6% | | |
| due 1/01/2010 (a) (b) | 9,690 | 10,225,469 |
| | | ----- |
| | | 35,425,835 |
| ===== | | |
| Wisconsin -- 1.8% | | |
| Milwaukee, Wisconsin, Revenue Bonds (Air Cargo), | | |
| AMT, 6.50% due 1/01/2025 | 1,755 | 1,739,749 |
| Wisconsin State Health and Educational Facilities | | |
| Authority Revenue Bonds (SynergyHealth Inc.), | | |
| 6% due 11/15/2032 | 3,040 | 2,829,267 |
| Wisconsin State Health and Educational Facilities | | |
| Authority, Mortgage Revenue Bonds (Hudson | | |
| Memorial Hospital), 5.70% due 1/15/2029 (o) | 5,000 | 5,046,200 |
| | | ----- |
| | | 9,615,216 |
| ===== | | |
| U.S. Virgin Islands -- 1.5% | | |
| Virgin Islands Government Refinery Facilities, | | |
| Revenue Refunding Bonds (Hovenssa Coker Project), | | |
| AMT, 6.50% due 7/01/2021 | 8,000 | 8,061,680 |
| ===== | | |
| Total Municipal Bonds (Cost -- \$738,272,671) -- 136.7% | | 735,291,711 |
| ===== | | |
| Municipal Bonds Transferred to | | |
| Tender Option Bond Trusts (p) | | |
| ===== | | |
| Florida -- 1.6% | | |
| Miami-Dade County, Florida, Aviation Revenue | | |
| Refunding Bonds, AMT, Series 2586Z, 6.552% | | |
| due 10/01/2015 (d) (e) (f) | 10,000 | 8,693,819 |
| ===== | | |
| Illinois -- 8.0% | | |
| Chicago, Illinois, O'Hare International Airport, | | |
| General Airport Revenue Refunding Bonds, | | |
| Third Lien, AMT, Series A, 5.75% due 1/01/2020 (h) | 14,000 | 14,152,180 |
| Chicago, Illinois, O'Hare International Airport | | |
| Revenue Bonds, Third Lien, AMT, Series B-2, 6% | | |
| due 1/01/2027 (h) | 17,080 | 17,270,784 |
| Kane and De Kalb Counties, Illinois, Community | | |
| Unit School District Number 302, GO (l) | | |
| 5.75% due 2/01/2018 | 2,975 | 3,311,145 |

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| | | |
|--|--------|------------|
| 5.75% due 2/01/2019 | 2,710 | 3,016,203 |
| 5.75% due 2/01/2021 | 4,780 | 5,320,092 |
| | | 43,070,404 |
| ===== | | |
| Massachusetts -- 3.6% | | |
| Massachusetts State School Building Authority, Dedicated Sales Tax Revenue Bonds, Series A, 5% due 8/15/2030 (b) | 20,000 | 19,242,400 |
| ===== | | |
| New York -- 8.1% | | |
| New York City, New York, City Transitional Finance Authority Revenue Bonds, Future Tax Secured, Series B, 6.25% due 11/15/2018 | 13,500 | 14,580,270 |
| New York State Dormitory Authority, State University Educational Facilities, Revenue Refunding Bonds, Series 1989, 6% due 5/15/2010 (a) (h) | 26,750 | 28,748,225 |
| | | 43,328,495 |
| ===== | | |
| Oregon -- 1.3% | | |
| Portland, Oregon, Sewer System Revenue Bonds, Series A, 5.75% due 8/01/2010 (a) (l) | 6,610 | 7,041,501 |
| ===== | | |
| Texas -- 4.2% | | |
| Harris County, Texas, Health Facilities Development Corporation, Revenue Refunding Bonds (School Health Care System), Series B, 5.75% due 7/01/2027 (g) | 20,970 | 22,652,842 |
| ===== | | |

See Notes to Financial Statements.

10 BLACKROCK MUNIVEST FUND, INC. FEBRUARY 29, 2008

Schedule of Investments (concluded) (Percentages shown are based on Net Assets)

| Municipal Bonds Transferred to Tender Option Bond Trusts (p) | Par (000) | Value |
|---|--------------|---------------|
| ===== | | |
| Washington -- 6.7% | | |
| Energy Northwest, Washington, Electric Revenue Refunding Bonds: | | |
| (Columbia Generating Station), Series A, 5.75% due 7/01/2018 (h) | \$ 11,660 | \$ 12,412,187 |
| (Columbia Generating Station), Series B, 6% due 7/01/2018 (k) | 7,015 | 7,565,467 |
| (Project Number 1), Series B, 6% due 7/01/2017 (h) | 14,700 | 15,972,285 |
| | | 35,949,939 |
| ===== | | |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts (Cost -- \$181,618,318) -- 33.5 % | | 179,979,400 |
| ===== | | |

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| Short-Term Securities | Shares (000) | Value |
|--|-----------------|----------------|
| Merrill Lynch Institutional Tax-Exempt Fund, 3.03% (q) (r) | 36,741 | 36,740,624 |
| Total Short-Term Securities (Cost -- \$36,740,624) -- 6.8% | | 36,740,624 |
| Total Investments (Cost -- \$956,631,613*) -- 177.0% | | 952,011,735 |
| Other Assets Less Liabilities -- 1.7% | | 9,289,308 |
| Liability for Trust Certificates, Including Interest Expense Payable -- (16.5%) | | (89,013,594) |
| Preferred Stock, at Redemption Value -- (62.2%) | | (334,381,099) |
| Net Assets Applicable to Common Stock -- 100.0% | | \$ 537,906,350 |

* The cost and unrealized appreciation (depreciation) of investments as of February 29, 2008, as computed for federal income tax purposes, were as follows:

| | |
|-------------------------------|----------------|
| Aggregate cost | \$ 870,800,009 |
| Gross unrealized appreciation | \$ 27,231,794 |
| Gross unrealized depreciation | (34,526,751) |
| Net unrealized depreciation | \$ (7,294,957) |

- (a) U.S. government securities, held in escrow, are used to pay interest on this security, as well as retire the bond in full at the date indicated, typically at a premium to par.
- (b) FSA Insured.
- (c) Variable rate security. Rate shown is the interest rate as of report date.
- (d) Assured Guaranty Insured.
- (e) The rate disclosed is that currently in effect. This rate changes periodically and inversely based upon prevailing market rates.
- (f) XL Capital Insured.
- (g) Security is collateralized by Municipal or U.S. Treasury obligations.
- (h) MBIA Insured.
- (i) FHLMC Collateralized.
- (j) FNMA/GNMA Collateralized.
- (k) AMBAC Insured.
- (l) FGIC Insured.
- (m) Represents a pay-in-kind security which may pay interest/dividends in additional face/shares.
- (n) Radian Insured.
- (o) FHA Insured.
- (p) 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. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.

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(q) 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 (000) | Dividend Income |
|---|--------------------|-----------------|
| Merrill Lynch Institutional Tax-Exempt Fund | 28,818 | \$158,536 |

(r) Represents the current yield as of report date.

(s) Commonwealth guaranteed.

o Forward interest rate swaps outstanding as of February 29, 2008 were as follows:

| | Notional Amount (000) | Unrealized Depreciation |
|--|-----------------------|-------------------------|
| Pay a fixed rate of 4.955% and receive a floating rate based on 3-month USD LIBOR Broker, JPMorgan Chase Expires June 2028 | \$12,000 | \$(272,964) |

See Notes to Financial Statements.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

11

Statement of Assets and Liabilities

As of February 29, 2008 (Unaudited)

Assets

| | |
|--|--------------------|
| Investments at value -- unaffiliated (identified cost -- \$919,890,989) | \$915,271,111 |
| Investments at value -- affiliated (identified cost -- \$36,740,624) | 36,740,624 |
| Cash | 18,380 |
| Interest receivable | 13,215,911 |
| Investments sold receivable | 6,995,281 |
| Swaps receivable | 29,678 |
| Prepaid expenses and other assets | 18,806 |
| Total assets | 972,289,791 |

Liabilities

| | |
|--|------------|
| Trust certificates 1 | 88,513,610 |
| Unrealized depreciation on forward interest rate swaps | 272,964 |
| Investments purchased payable | 7,516,259 |
| Income dividends payable | 2,656,862 |
| Interest expense and fees payable | 499,984 |
| Investment advisory fees payable | 382,163 |

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| | |
|--------------------------------------|-------------|
| Directors' fees payable | 7,317 |
| Other affiliates payable | 6,707 |
| Other accrued expenses payable | 146,476 |
| | ----- |
| Total liabilities | 100,002,342 |
| | ----- |

=====
Preferred Stock

| | |
|--|-------------|
| Preferred Stock, at redemption value, par value \$.025 per share; 10,000,000 shares authorized (2,000 Series A Shares, 2,000 Series B Shares, 2,000 Series C Shares, 2,000 Series D Shares, 3,000 Series E Shares) and \$.10 per share (2,360 Series F Shares), issued and outstanding at \$25,000 per share liquidation preference | 334,381,099 |
| | ----- |

=====
Net Assets Applicable to Common Stock

| | |
|---|---------------|
| Net assets applicable to Common Stock | \$537,906,350 |
| | ----- |

=====
Net Assets Applicable to Common Stock Shareholders Consist of

| | |
|--|---------------|
| Common Stock, par value \$.10 per share; 150,000,000 shares authorized (61,787,499 shares issued and outstanding) | \$ 6,178,750 |
| Paid-in capital in excess of par | 568,736,460 |
| Undistributed net investment income | 3,769,032 |
| Accumulated net realized loss | (35,885,050) |
| Net unrealized depreciation | (4,892,842) |
| | ----- |
| Net Assets, \$8.71 net asset value per share of Common Stock | \$537,906,350 |
| | ===== |

1 Represents short-term floating rate certificates issued by tender option bond trusts.

Statement of Operations

For the Six Months Ended February 29, 2008 (Unaudited)

=====
Investment Income

| | |
|--|---------------|
| Interest (including \$158,536 from affiliates) | \$ 25,539,042 |
| Dividends from affiliates | 158,536 |
| | ----- |
| Total income | 25,697,578 |
| | ----- |

=====
Expenses

| | |
|---------------------------------------|--------------|
| Investment advisory | \$ 2,268,103 |
| Interest expense and fees 1 | 1,697,694 |
| Commissions for Preferred Stock | 432,545 |
| Accounting services | 133,897 |
| Transfer agent | 84,425 |
| Professional fees | 31,276 |

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| | |
|--|------------|
| Printing | 28,995 |
| Custodian | 23,585 |
| Directors | 13,051 |
| Registration | 7,524 |
| Miscellaneous | 61,197 |
| | ----- |
| Total expenses before waiver | 4,782,292 |
| Less fees waived by advisor | (10,199) |
| | ----- |
| Total expenses after reimbursement | 4,772,093 |
| | ----- |
| Net investment income | 20,925,485 |
| | ----- |

=====
Realized and Unrealized Gain (Loss)

| | |
|--|--------------|
| Net realized loss from: | |
| Investments | (3,700,268) |
| Forward interest rate swaps | (2,912,351) |
| | ----- |
| | (6,612,619) |
| | ----- |
| Net change in unrealized appreciation/depreciation on: | |
| Investments | (35,278,337) |
| Forward interest rate swaps | 1,052,198 |
| | ----- |
| | (34,226,139) |
| | ----- |
| Total realized and unrealized loss | (40,838,758) |
| | ----- |

=====
Dividends to Preferred Stock Shareholders from

| | |
|--|----------------|
| Net investment income | (6,302,003) |
| | ----- |
| Net Decrease in Net Assets to Common Stock Shareholders Resulting from Operations | \$(26,215,276) |
| | ===== |

1 Related to tender option bond trusts.

See Notes to Financial Statements.

12 BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets:

=====
Operations

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| | |
|--|--|
| Net investment income | |
| Net realized gain (loss) | |
| Net change in unrealized depreciation | |
| Dividends to Preferred Stock shareholders from net investment income | |
| Net decrease in net assets applicable to Common Stock shareholders resulting from operations ... | |
| ===== | |
| Dividends to Common Stock Shareholders from | |
| ----- | |
| Net investment income | |
| ===== | |
| Capital Stock Transactions | |
| ----- | |
| Increase in net assets resulting from reinvestment of common dividends | |
| ===== | |
| Net Assets Applicable to Common Stock | |
| ----- | |
| Total decrease in net assets applicable to Common Stock | |
| Beginning of period | |
| End of period | |
| End of period undistributed net investment income | |

See Notes to Financial Statements.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Financial Highlights

| | For the Six Months Ended February 29, 2008 (Unaudited) | ----- 2007 | For the 2006 |
|---|--|---------------|-----------------|
| ===== | | | |
| Per Share Operating Performance | | | |
| ----- | | | |
| Net asset value, beginning of period | \$ 9.39 | \$ 9.93 | \$ 10.23 |
| Net investment income 1 | .34 | .73 | .70 |
| Net realized and unrealized gain (loss) | (.66) | (.55) | (.23) |
| Dividends to Preferred Stock shareholders from net investment income | (.10) | (.20) | (.17) |
| Net increase (decrease) from investment operations | (.42) | (.02) | .30 |
| ----- | | | |
| Dividends to Common Stock shareholders from net investment income | (.26) | (.52) | (.60) |
| ----- | | | |
| Capital charges with respect to issuance of Preferred Stock | -- | -- | -- |

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| | | | |
|--|-----------|-----------|-----------|
| Net asset value, end of period | \$ 8.71 | \$ 9.39 | \$ 9.93 |
| Market price, end of period | \$ 8.74 | \$ 9.35 | \$ 9.66 |
| ===== | | | |
| Total Investment Return 3 | | | |
| Based on net asset value | (4.61%) 4 | (.30%) | 3.27% |
| Based on market price | (3.87%) 4 | 2.05% | 1.26% |
| ===== | | | |
| Ratios Based on Average Net Assets Applicable to Common Stock | | | |
| Total expenses, net of reimbursement and excluding interest expense and fees 5,6 | 1.06 7 | 1.02% | 1.04% |
| Total expenses, net of reimbursement 5 | 1.65 7 | 1.66% | 1.60% |
| Total expenses ⁵ | 1.65 7 | 1.66% | 1.60% |
| Net investment income 5 | 7.23 7 | 7.33% | 7.11% |
| Dividends to Preferred Stock shareholders | 2.18 7 | 1.98% | 1.72% |
| Net investment income to Common Stock shareholders | 5.05 7 | 5.35% | 5.39% |
| ===== | | | |
| Supplemental Data | | | |
| Net assets applicable to Common Stock, end of period (in thousands) | \$537,906 | \$579,079 | \$609,612 |
| Preferred Stock outstanding at liquidation preference, end of period (in thousands) | \$334,000 | \$334,000 | \$334,000 |
| Portfolio turnover | 23% | 39% | 56% |
| Asset coverage per \$1,000 | \$ 2,610 | \$ 2,734 | \$ 2,825 |
| ===== | | | |

- 1 Based on average shares outstanding.
- 2 Amount is less than \$(.01) per share.
- 3 Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Total investment returns exclude the effects of sales charges.
- 4 Aggregate total investment return.
- 5 Does not reflect the effect of dividends to Preferred Stock shareholders.
- 6 Interest expense and fees relate to tender option bond trusts. See Note 1 of the Notes to Financial Statements for details of municipal bonds transferred to tender option bond trusts.
- 7 Annualized.

See Notes to Financial Statements.

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Notes to Financial Statements (Unaudited)

1. Significant Accounting Policies:

BlackRock MuniVest Fund, Inc. (the "Fund") is registered under the Investment Company Act of 1940, as amended (the "1940 Act"), as a non-diversified, closed-end management investment company. The Fund's financial statements are prepared in conformity with accounting principles generally accepted in the United States of America, which may require the use of management accruals and estimates. The Fund determines and makes available for publication the net asset value of its Common Stock on a daily basis.

The following is a summary of significant accounting policies followed by the Fund:

Valuation of Investments: Municipal investments (including commitments to purchase such investments on a "when-issued" basis) are valued on the basis of prices provided by dealers or pricing services selected under the supervision of the Fund's Board of Directors (the "Board"). In determining the value of a particular investment, pricing services may use certain information with respect to transactions in such investments, quotations from bond dealers, market transactions in comparable investments and various relationships between investments. Swap agreements are valued by quoted fair values received daily by the Fund's pricing service. Short-term securities may be valued at amortized cost. Investments in open-end investment companies are valued at net asset value each business day.

In the event that application of these methods of valuation results in a price for an investment which is deemed not to be representative of the market value of such investment, the investment will be valued by, under the direction of, or in accordance with, a method approved by the Board as reflecting fair value ("Fair Value Assets"). When determining the price for Fair Value Assets, BlackRock Advisors, LLC (the "Advisor"), an indirect, wholly owned subsidiary of BlackRock, Inc. and/or the sub-advisor seeks to determine the price that the Fund might reasonably expect to receive from the current sale of that asset in an arm's-length transaction. Fair value determinations shall be based upon all available factors that the Advisor and/or sub-advisor deems relevant. The pricing of all Fair Value Assets is subsequently reported to the Board or a committee thereof.

Derivative Financial Instruments: The Fund may engage in various portfolio investment strategies to increase the return of the Fund and to hedge, or protect, its exposure to interest rate movements and movements in the securities markets. Losses may arise if the value of the contract decreases due to an unfavorable change in the price of the underlying security, or if the counterparty does not perform under the contract.

- o Forward interest rate swaps -- The Fund may enter into forward interest rate swaps, which are over-the-counter ("OTC") contracts. In a forward interest rate swap, the Fund and the counter-party agree to make periodic net payments on a specified notional contract amount, commencing on a specified future effective date, unless terminated earlier. These periodic payments received or made by the Fund are recorded in the accompanying Statement of Operations as realized gains or losses, respectively. Gains or losses are also realized upon termination of the swap agreements. Swaps are marked-to-market daily and changes in value are recorded as unrealized appreciation (depreciation). Risks include changes in the returns of the underlying instruments, failure of the counterparties to perform under the contracts' terms and the possible lack of liquidity with respect to the swap agreements. The Fund generally intends to close each forward interest rate swap before the accrual date specified in the agreement and therefore avoid entering into the interest rate swap underlying each forward

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interest rate swap.

The Fund may utilize forward starting swaps for the purpose of reducing the interest rate sensitivity of the portfolio and decreasing the Fund's exposure to interest rate risk.

Municipal Bonds Transferred to Tender Option Bond Trusts: The Fund invests in leveraged residual certificates ("TOB Residuals") issued by tender option bond trusts ("TOBs"). A TOB is a special purpose entity established by a third party sponsor into which the Fund, or an agent on behalf of the Fund, transfers municipal securities. A TOB typically issues two classes of beneficial interests: short-term floating rate certificates, which are sold to third party investors, and residual certificates, which are generally issued to the Fund which made the transfer or to affiliates of the Fund. The Fund's transfer of the municipal securities to a TOB is accounted for as a financing transaction, therefore the municipal securities deposited into a TOB are presented in the Fund's Schedule of Investments and the proceeds from the transaction are reported as a liability for trust certificates of the Fund. Similarly, proceeds from residual certificates issued to affiliates, if any, from the transaction are included in the liability for trust certificates. Interest income from the underlying security is recorded by the Fund on an accrual basis. Interest expense incurred on the secured borrowing and other expenses related to remarketing, administration and trustee services to a TOB are reported as expenses of the Fund. The floating rate certificates have interest rates that generally reset weekly and their holders have the option to tender certificates to the TOB for redemption at par at each reset date. The residual interest held by the Fund include the right of the Fund (1) to cause the holders of a proportional share of the floating rate certificates to tender their certificates at par, and (2) to transfer a corresponding share of the municipal securities from the TOB to the Fund. At February 29, 2008, the aggregate value of the underlying municipal securities transferred to TOBs was \$179,979,400, the related liability for trust certificates was \$88,513,610 and the range of interest rates on the liability for trust certificates was 2.94% to 3.435%.

Financial transactions executed through TOBs generally will underperform the market for fixed rate municipal bonds in a rising interest rate environment, but tend to outperform the market for fixed rate bonds when interest rates decline or remain relatively stable. Should short-term interest rates rise, the Fund's investment in TOB Residuals likely will adversely affect the

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Notes to Financial Statements (continued)

Fund's net investment income and dividends to shareholders. Fluctuations in the market value of municipal securities deposited into the TOB may adversely affect the Fund's net asset value per share.

While the Fund's investment policies and restrictions expressly permit investments in inverse floating rate securities such as TOB Residuals, they generally do not allow the Fund to borrow money for purposes of making investments. The Fund's Advisor believes that the Fund's restrictions on borrowings do not apply to the liability for trust certificates reflected as a result of the Fund's investment in TOB Residuals.

Income Taxes: It is the Fund's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute substantially all of its taxable income to its shareholders. Therefore, no provision for federal income tax is required.

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Effective February 29, 2008, the Fund implemented Financial Accounting Standards Board ("FASB") Interpretation No. 48, "Accounting for Uncertainty in Income Taxes -- an interpretation of FASB Statement No. 109" ("FIN 48"). FIN 48 prescribes the minimum recognition threshold a tax position must meet in connection with accounting for uncertainties in income tax positions taken or expected to be taken by an entity, including investment companies, before being measured and recognized in the financial statements. The Advisor has evaluated the application of FIN 48 to the Fund, and has determined that the adoption of FIN 48 does not have a material impact on the Fund's financial statements. The Fund files U.S. federal and various state and local tax returns. No income tax returns are currently under examination. The statute of limitations on the Fund's U.S. federal tax returns remains open for the years ended August 31, 2004 through August 31, 2006. The statutes of limitations on the Fund's state and local tax returns may remain open for an additional year depending upon the jurisdiction.

Investment Transactions and Investment Income: Investment transactions are recorded on the dates the transactions are entered into (i.e., the trade dates). Realized gains and losses on security transactions are determined on the identified cost basis. Dividend income is recorded on the ex-dividend dates. Interest income is recognized on the accrual basis. The Fund amortizes all premiums and discounts on debt securities.

Dividends and Distributions: Dividends to Common Stock shareholders from net investment income are declared and paid monthly. Distributions of capital gains are recorded on the ex-dividend dates. Dividends and distributions to Preferred Stock shareholders are accrued and determined as described in Note 4.

Recent Accounting Pronouncements: In September 2006, Statement of Financial Accounting Standards No.157, "Fair Value Measurements" ("FAS 157"), was issued and is effective for fiscal years beginning after November 15, 2007. FAS 157 defines fair value, establishes a framework for measuring fair value and expands disclosures about fair value measurements. The impact on the Fund's financial statement disclosures, if any, is currently being assessed.

In addition, in February 2007, Statement of Financial Accounting Standards No.159, "The Fair Value Option for Financial Assets and Financial Liabilities" ("FAS 159"), was issued and is effective for fiscal years beginning after November 15, 2007. Early adoption is permitted as of the beginning of a fiscal year that begins on or before November 15, 2007, provided the entity also elects to apply the provisions of FAS 157. FAS 159 permits entities to choose to measure many financial instruments and certain other items at fair value that are not currently required to be measured at fair value. FAS 159 also establishes presentation and disclosure requirements designed to facilitate comparisons between entities that choose different measurement attributes for similar types of assets and liabilities. The impact on the Fund's financial statement disclosures, if any, is currently being assessed.

Segregation: In cases in which the 1940 Act and the interpretive positions of the Securities and Exchange Commission ("SEC") require that the Fund segregate assets in connection with certain investments (e.g., swaps and when-issued securities), the Fund will, consistent with certain interpretive letters issued by the SEC, designate on its books and records cash or other liquid debt securities having a market value at least equal to the amount that would otherwise be required to be physically segregated.

Deferred Compensation and BlackRock Closed-End Share Equivalent Investment Plan: Under the deferred compensation plan approved by the Fund's Board, non-interested Directors ("Independent Directors") defer a portion of their annual complex-wide compensation. Deferred amounts earn an approximate return as though equivalent dollar amounts had been invested in common shares of the other BlackRock Closed-End Funds selected by the Independent Directors. This has

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approximately the same economic effect for the Independent Directors as if the Independent Directors had invested the deferred amounts directly in other certain BlackRock Closed-End Funds. The deferred compensation, if any, is included in other assets in the Statement of Assets and Liabilities.

The deferred compensation plan is not funded and obligations thereunder represent general unsecured claims against the general assets of the Fund. The Fund may, however, elect to invest in common shares of other certain BlackRock Closed-End Funds selected by the Independent Directors in order to match its deferred compensation obligations.

Other: Expenses that are directly related to one of the funds are charged to that fund. Other operating expenses are pro-rated to certain funds on the basis of relative net assets of all of the Closed-End Funds.

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BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

Notes to Financial Statements (continued)

2. Investment Advisory Agreement and Other Transactions with Affiliates:

The Fund entered into an Investment Advisory Agreement with the Advisor, to provide investment advisory and administration services. Merrill Lynch & Co., Inc. ("Merrill Lynch") and The PNC Financial Services Group, Inc. are principal owners of BlackRock, Inc.

The Advisor is responsible for the management of the Fund's portfolio and provides the necessary personnel, facilities, equipment and certain other services necessary to the operations of the Fund. For such services, the Fund pays the Advisor a monthly fee at an annual rate of 0.50% of the average daily value of the Fund's net assets, including proceeds from the issuance of Preferred Stock.

The Advisor has agreed to waive its advisory fees by the amount of investment advisory fees the Fund pays to the Advisor indirectly through its investment in affiliated money market funds. This amount is shown on the Statement of Operations as fees waived by advisor.

In addition, the Advisor has entered into a separate sub-advisory agreement with BlackRock Investment Management, LLC ("BIM"), an affiliate of the Advisor, under which the Advisor pays BIM for services it provides, a monthly fee at an annual rate that is a percentage of the investment advisory fee paid by the Fund to the Advisor. For the six months ended February 29, 2008, the Fund reimbursed the Advisor \$8,458 for certain accounting services, which are included in accounting services expenses in the Statement of Operations.

Certain officers and/or directors of the Fund are officers and/or directors of BlackRock, Inc. or its affiliates.

3. Investments:

Purchases and sales of investments, excluding short-term securities, for the six months ended February 29, 2008 were \$226,341,309 and \$266,667,219, respectively.

4. Capital Stock Transactions:

Common Stock

The Fund is authorized to issue 150,000,000 shares of capital stock, par value \$0.10 per share all of which were initially classified as Common Stock. The

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Board is authorized, however, to classify and reclassify any unissued shares of capital stock without approval of the holders of Common Stock.

Shares issued and outstanding for the six months ended February 29, 2008 and year ended August 31, 2007 increased by 101,978 and 267,589, respectively, as a result of dividend reinvestments.

Preferred Stock

Preferred Stock of the Fund has a par value of \$0.025 per share for Series A, B, C, D and E and a par value of \$0.10 per share for Series F and a liquidation preference of \$25,000 per share, plus accrued and unpaid dividends. Preferred Stock shareholders receive cash dividends at an annual rate that may vary for the successive dividend periods for each series. The Fund is authorized to issue 10,000,000 shares of Preferred Stock. The yields in effect at February 29, 2008 were as follows: Series A, 3.20%; Series B, 3.205%; Series C, 3.217%; Series D, 3.00%; Series E, 3.172%; and Series F, 4.922%.

The Fund pays commissions to certain broker-dealers at the end of each auction at an annual rate ranging from 0.25% to 0.375% calculated on the proceeds of each auction. For the six months ended February 29, 2008, Merrill Lynch, Pierce, Fenner & Smith Incorporated, a wholly owned subsidiary of Merrill Lynch, earned \$187,853 as commissions.

Dividends on seven-day Preferred Stock are cumulative at a rate that is reset every seven days based on the results of an auction. Dividends on 28-day Preferred Stock are cumulative at a rate that resets every 28 days based on the results of an auction. If the Preferred Stock fails to clear the auction on an auction date, the Fund is required to pay the maximum applicable rate on the Preferred Stock to holders of such stock for successive dividend periods until such time as the stock is successfully auctioned. The maximum applicable rate on the Preferred Stock for Series A, B, C, D and E is 110% of the interest equivalent of the 30-day commercial paper rate and for Series F is the higher of 110% plus or times (i) the Telerate/BBA LIBOR or (ii) 90% of the Kenny S&P 30-day High Grade Index rate divided by 1.00 minus the marginal tax rate. During the six months ended February 29, 2008, the Preferred Stock of the Fund was successfully auctioned at each auction date until February 13, 2008. The low, high and average dividend ranges on the Preferred Stock for the Fund for the six months ended February 29, 2008 were as follows:

| | Low | High | Average |
|----------|--------|--------|---------|
| Series A | 3.200% | 3.800% | 3.550% |
| Series B | 3.205 | 4.600 | 3.921 |
| Series C | 3.200 | 4.800 | 3.955 |
| Series D | 3.000 | 4.400 | 3.791 |
| Series E | 3.000 | 4.600 | 3.594 |
| Series F | 3.040 | 4.922 | 3.675 |

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Notes to Financial Statements (concluded)

A Fund may not declare dividends or make other distributions on Common Stock or purchase any such shares if, at the time of the declaration, distribution or purchase, asset coverage with respect to the outstanding Preferred Stock would be less than 200%.

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The Preferred Stock is redeemable at the option of the Fund, in whole or in part, on any dividend payment date at \$25,000 per share plus any accumulated unpaid dividends whether or not declared. The Preferred Stock is also subject to mandatory redemption at \$25,000 per share plus any accumulated or unpaid dividends, whether or not declared, if certain requirements relating to the composition of the assets and liabilities of the Fund, as set forth in the Fund's Article of Incorporation/Articles Supplementary, are not satisfied.

The holders of Preferred Stock have voting rights equal to the holders of Common Stock (one vote per share) and will vote together with holders of Common Stock as a single class. However, holders of Preferred Stock, voting as a separate class, are also entitled to elect two Directors for the Fund. In addition, the 1940 Act requires that, along with approval by shareholders that might otherwise be required, the approval of the holders of a majority of any outstanding preferred shares, voting separately as a class, would be required to (a) adopt any plan of reorganization that would adversely affect the preferred shares (b) change the Fund's subclassification as a closed-end investment company or change its fundamental investment restrictions or (c) change its business so as to cease to be an investment company.

Since February 13, 2008, the Preferred Stock of the Fund failed to clear any of its auctions. As a result, the Preferred Stock dividend rates were reset to the maximum applicable rate, which ranged from 3.17% to 4.92%. A failed auction is not an event of default for the Fund but it is a liquidity event for the holders of the Preferred Stock. A failed auction occurs when there are more sellers of a fund's auction rate preferred stock than buyers. It is impossible to predict how long this imbalance will last. A successful auction for the Fund's Preferred Stock may not occur for a long time, if ever, and even if liquidity does resume, holders of the Preferred Stock may not have the amount of liquidity they desire or the ability to sell the Preferred Stock at par.

5. Capital Loss Carryforward:

As of August 31, 2007, the Fund had capital loss carryforwards available to offset future realized capital gains of \$13,312,422, all of which expires in 2009.

6. Concentration Risk:

The Fund concentrates its investments in securities issued by state agencies, other governmental entities and U.S. Territories. The Fund is more susceptible to adverse financial, social, environmental, economic, regulatory and political factors that may affect these state agencies, other governmental entities and U.S. Territories, which could seriously affect the ability of these states and their municipal subdivisions to meet continuing obligations for principal and interest payments and therefore could impact the value of the Fund's investments and net asset value per share, than if the Fund was not concentrated in securities issued by state agencies, other governmental entities and U.S. Territories.

Many municipalities insure repayment of their obligations. Although bond insurance reduces the risk of loss due to default by an issuer, such bonds remain subject to the risk that market value may fluctuate for other reasons and there is no assurance that the insurance company will meet its obligations. These securities have been identified in the Schedule of Investments.

7. Subsequent Event:

The Fund paid a tax-exempt income dividend to holders of Common Stock in the amount of \$0.043000 per share on April 1, 2008 to shareholders of record on March 14, 2008.

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The dividends declared on Preferred Stock for the period March 1, 2008 to March 31, 2008 were as follows: Series A, \$122,940; Series B, \$116,140; Series C, \$102,100; Series D, \$111,460; Series E, \$169,740 and Series F, \$207,562.

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BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

Officers and Directors

G. Nicholas Beckwith, III, Director
Richard E. Cavanagh, Director
Richard S. Davis, Director
Kent Dixon, Director
Frank J. Fabozzi, Director
Kathleen F. Feldstein, Director
James T. Flynn, Director
Henry Gabbay, Director
Jerrold B. Harris, Director
R. Glenn Hubbard, Director
W. Carl Kester, Director
Karen P. Robards, Director
Robert S. Salomon, Jr., Director
Donald C. Burke, Fund President and Chief Executive Officer
Anne F. Ackerley, Vice President
Neal J. Andrews, Chief Financial Officer
Jay M. Fife, Treasurer
Brian P. Kindelan, Chief Compliance Officer
Howard Surloff, Secretary

Custodian

The Bank of New York Mellon
New York, NY 10286

Transfer Agent

Common Stock and Preferred Stock
The Bank of New York Mellon
New York, NY 10286

Accounting Agent

State Street Bank and Trust Company
Princeton, NJ 08540

Independent Registered Public Accounting Firm

Deloitte & Touche LLP
Princeton, NJ 08540

Legal Counsel

Skadden, Arps, Slate, Meagher & Flom LLP
New York, NY 10036

BLACKROCK MUNIVEST FUND, INC.

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Additional Information

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Dividend Policy

The Fund's dividend policy is to distribute all or a portion of its net investment income to its shareholders on a monthly basis. In order to provide shareholders with a more stable level of dividend distributions, the Fund may at times pay out less than the entire amount of net investment income earned in any particular month and may at times in any particular month pay out such accumulated but undistributed income in addition to net investment income earned in that month. As a result, the dividends paid by the Fund for any particular month may be more or less than the amount of net investment income earned by the Fund during such month. The Fund's current accumulated but undistributed net investment income, if any, is disclosed in the Statement of Assets and Liabilities, which comprises part of the financial information included in this report.

Availability of Quarterly Schedule of Investments

The Fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission ("SEC") for the first and third quarters of each fiscal year on Form N-Q. The Fund's Forms N-Q are available on the SEC's website at <http://www.sec.gov> and may also be reviewed and copied at the SEC's Public Reference Room in Washington, DC. Information on the operation of the Public Reference Room may be obtained by calling (800) SEC-0330. The Fund's Forms N-Q may also be obtained upon request and without charge by calling (800) 441-7762.

Electronic Delivery

Electronic copies of most financial reports are available on the Fund's website or shareholders can sign up for e-mail notifications of quarterly statements, annual and semi-annual reports by enrolling in the Fund's electronic delivery program.

Shareholders Who Hold Accounts with Investment Advisors, Banks or Brokerages:

Please contact your financial advisor to enroll. Please note that not all investment advisors, banks or brokerages may offer this service.

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BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

General Information

The Fund will mail only one copy of shareholder documents, including annual and semi-annual reports and proxy statements, to shareholders with multiple accounts at the same address. This practice is commonly called "householding" and it is intended to reduce expenses and eliminate duplicate mailings of shareholder documents. Mailings of your shareholder documents may be householded indefinitely unless you instruct us otherwise. If you do not want the mailing of these documents to be combined with those for other members of your household, please contact the Fund at (800) 441-7762.

Quarterly performance, semi-annual and annual reports and other information regarding the Fund may be found on BlackRock's website, which can be accessed at <http://www.blackrock.com>. This reference to BlackRock's website is intended to allow investors public access to information regarding the Fund and does not, and is not intended to, incorporate BlackRock's website into this report.

BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

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Additional Information (concluded)

BlackRock Privacy Principles

BlackRock is committed to maintaining the privacy of its current and former fund investors and individual clients (collectively, "Clients") and to safeguarding their non-public personal information. The following information is provided to help you understand what personal information BlackRock collects, how we protect that information and why in certain cases we share such information with select parties.

If you are located in a jurisdiction where specific laws, rules or regulations require BlackRock to provide you with additional or different privacy-related rights beyond what is set forth below, then BlackRock will comply with those specific laws, rules or regulations.

BlackRock obtains or verifies personal non-public information from and about you from different sources, including the following: (i) information we receive from you or, if applicable, your financial intermediary, on applications, forms or other documents; (ii) information about your transactions with us, our affiliates, or others; (iii) information we receive from a consumer reporting agency; and (iv) from visits to our websites.

BlackRock does not sell or disclose to non-affiliated third parties any non-public personal information about its Clients, except as permitted by law or as is necessary to respond to regulatory requests or to service Client accounts. These non-affiliated third parties are required to protect the confidentiality and security of this information and to use it only for its intended purpose.

We may share information with our affiliates to service your account or to provide you with information about other BlackRock products or services that may be of interest to you. In addition, BlackRock restricts access to non-public personal information about its Clients to those BlackRock employees with a legitimate business need for the information. BlackRock maintains physical, electronic and procedural safeguards that are designed to protect the non-public personal information of its Clients, including procedures relating to the proper storage and disposal of such information.

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BLACKROCK MUNIVEST FUND, INC.

FEBRUARY 29, 2008

This report is transmitted to shareholders only. It is not a prospectus. Past performance results shown in this report should not be considered a representation of future performance. The Fund has leveraged its Common Stock, which creates risks for Common Stock shareholders, including the likelihood of greater volatility of net asset value and market price of shares of the Common Stock, and the risk that fluctuations in the short-term dividend rates of the Preferred Stock, currently set at the maximum reset rate as a result of failed auctions, may affect the yield to Common Stock shareholders. Statements and other information herein are as dated and are subject to change.

A description of the policies and procedures that the Fund uses to determine how to vote proxies relating to portfolio securities is available (1) without charge, upon request, by calling toll-free (800) 441-7762; (2) at www.blackrock.com; and (3) on the Securities and Exchange Commission's website at <http://www.sec.gov>. Information about how the Fund voted proxies relating to securities held in the Fund's portfolio during the most recent 12-month period ended June 30 is available upon request and without charge (1) at www.blackrock.com or by calling (800) 441-7762 and (2) on the Securities and Exchange Commission's website at <http://www.sec.gov>.

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BlackRock MuniVest Fund, Inc.
100 Bellevue Parkway
Wilmington, DE 19809

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#10787-2/08

- Item 2 - Code of Ethics - Not Applicable to this semi-annual report
- Item 3 - Audit Committee Financial Expert - Not Applicable to this semi-annual report
- Item 4 - Principal Accountant Fees and Services - Not Applicable to this semi-annual report
- Item 5 - Audit Committee of Listed Registrants - Not Applicable to this semi-annual report
- Item 6 - Schedule of Investments - The registrant's Schedule of Investments is included as part of the Report to Stockholders filed under Item 1 of this form
- Item 7 - Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies - Not Applicable to this semi-annual report
- Item 8 - Portfolio Managers of Closed-End Management Investment Companies - Not Applicable to this semi-annual report
- Item 9 - Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers - Not Applicable
- Item 10 - Submission of Matters to a Vote of Security Holders - The registrant's Nominating and Governance Committee will consider nominees to the Board recommended by shareholders when a vacancy becomes available. Shareholders who wish to recommend a nominee should send nominations which include biographical information and set forth the qualifications of the proposed nominee to the registrant's Secretary. There have been no material changes to these procedures.
- Item 11 - Controls and Procedures
 - 11(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 Exchange Act of 1934, as amended.
 - 11(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 second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

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- Item 12 - Exhibits attached hereto
- 12(a) (1) - Code of Ethics - Not Applicable to this semi-annual report
- 12(a) (2) - Certifications - Attached hereto
- 12(a) (3) - Not Applicable
- 12(b) - 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: April 23, 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: April 23, 2008

By: /s/ Neal J. Andrews

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

Date: April 23, 2008