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MUNIVEST FUND INC  
Form N-CSR  
October 29, 2004

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

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT  
INVESTMENT COMPANIES

Investment Company Act file number 811-5611

Name of Fund: MuniVest Fund, Inc.

Fund Address: P.O. Box 9011  
Princeton, NJ 08543-9011

Name and address of agent for service: Terry K. Glenn, President, 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: (609) 282-2800

Date of fiscal year end: 08/31/04

Date of reporting period: 09/01/03 - 08/31/04

Item 1 - Report to Stockholders

[LOGO] Merrill Lynch Investment Managers

[www.mlim.ml.com](http://www.mlim.ml.com)

MuniVest Fund, Inc.

Annual Report  
August 31, 2004

[LOGO] Merrill Lynch Investment Managers

MuniVest Fund, Inc.

The Benefits and Risks of Leveraging

MuniVest Fund, Inc. utilizes leveraging to seek to enhance the yield and net asset value of its Common Stock. However, these objectives cannot be achieved in all interest rate environments. To leverage, the Fund issues 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.

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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 even 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 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 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. As of August 31, 2004, the percentage of the Fund's total net assets invested in inverse floaters was 13.75%, before the deduction of Preferred Stock.

### Swap Agreements

The Fund may also 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.

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MUNIVEST FUND, INC.

AUGUST 31, 2004

A Letter From the President

Dear Shareholder

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In recent months, the Federal Reserve Board (the Fed) has taken center stage as it shifts away from its long-accommodative monetary stance. The Fed raised the Federal Funds rate 75 basis points (.75%) in three separate moves since June, bringing the target short-term interest rate to 1.75% -- still low by historical standards. The Fed has been deliberate in telegraphing its intention to take a "measured" approach to interest rate increases in order to avoid upsetting the economy or the financial markets, while still leaving room to move more aggressively if inflation and economic growth accelerate more than anticipated. The forward curve currently projects further increases in short-term interest rates before year-end. In addition to the Fed policy change, the financial markets recently have had to grapple with a tense geopolitical environment, higher oil prices and the worry and anticipation that accompanies a presidential election.

The transition to higher rates can cause concern among equity and fixed income investors alike. For bond investors, rising interest rates means the value of older issues declines because they bear the former lower interest rates. In addition, increasing inflation erodes the purchasing power of fixed income securities. However, because municipal bonds offer the advantage of tax-exempt income, they continue to be an attractive alternative for many fixed income investors. For the 12-month period ended August 31, 2004, municipal bonds posted a return of +7.11%, as measured by the Lehman Brothers Municipal Bond Index.

As always, our investment professionals are closely monitoring the markets, the economy and the overall environment in an effort to make well-informed decisions for the portfolios they manage. Our goal is to provide shareholders with competitive returns, while always keeping one eye on managing the unavoidable risk inherent in investing.

We thank you for trusting Merrill Lynch Investment Managers with your investment assets, and we look forward to serving you in the months and years ahead.

Sincerely,

/s/ Terry K. Glenn

Terry K. Glenn  
President and Director

MUNIVEST FUND, INC.

AUGUST 31, 2004

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[LOGO] Merrill Lynch Investment Managers

A Discussion With Your Fund's Portfolio Manager

The Fund was able to outperform its Lipper category average for the period, as we remained focused on enhancing yield and preserving net asset value in a volatile interest rate environment.

Describe the recent market environment relative to municipal bonds.

Amid considerable monthly volatility, long-term U.S. Treasury bond yields finished the 12-month period ended August 31, 2004 lower than where they began. At the start of the period, bond yields declined as bond prices -- which move in the opposite direction -- rose. Despite continued improvement in U.S. economic conditions, solid job creation remained elusive. Consumer confidence faltered, and investors became increasingly convinced that the Federal Reserve Board (the Fed) would hold short-term interest rates at their historic lows. Under the

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circumstances, 30-year U.S. Treasury bond yields declined to 4.65% by mid-March.

In early April, however, monthly employment reports began to show unexpectedly large gains. In response, bond yields increased as their prices fell. Associated improvements in consumer confidence and spending led some investors to reverse their earlier expectations, believing instead that the Fed would soon be forced to raise short-term interest rates to ward off potential inflation. By early June, long-term U.S. Treasury bond yields had risen above 5.50%.

For the remainder of the period, bond yields generally declined. Payroll growth had begun to wane and inflationary measures continued to be negligible. Although the Fed began raising interest rates (.25% in June, .25% in August and another .25% in September, bringing the target rate to 1.75%), it seemed committed to a measured tightening policy. This effectively removed much of the earlier concern over the potential for a prolonged series of interest rate increases. The prospect for a measured, moderate tightening sequence helped support higher bond prices (and lower yields) for the remainder of the Fund's fiscal year. By the end of August 2004, long-term U.S. Treasury bond yields stood at 4.93%, a decline of almost 30 basis points (.30%) over the past year. The 10-year U.S. Treasury note yield ended the period at 4.12%, a decrease of 35 basis points during the 12-month period.

Tax-exempt issues, supported by a favorable technical backdrop, exhibited less volatility than their taxable counterparts during the year. Declining supply trends allowed tax-exempt bond prices to register moderate gains. As measured by the Bond Buyer Revenue Bond Index, yields on long-term revenue bonds fell approximately 30 basis points over the past year. According to Municipal Market Data, yields on Aaa-rated issues maturing in 30 years declined more than 30 basis points to 4.70%, and yields on 10-year Aaa-rated issues fell more than 40 basis points to 3.50%.

In terms of new issuance, more than \$360 billion in new long-term tax-exempt bonds was underwritten in the past 12 months, a decline of approximately 6% compared to last year. Approximately \$95 billion in long-term tax-exempt bonds was issued in the last three months of the fiscal year, a decline of nearly 15% versus the same period a year ago. The tax-exempt bond market maintained a positive supply/demand position throughout the reporting period, allowing municipal issues to outperform their taxable counterparts. New-issue volume is expected to remain manageable, continuing to support the tax-exempt market's favorable technical position for the remainder of the year. In addition, attractive yield ratios compared to taxable securities should continue to draw both traditional and non-traditional investors to the tax-exempt market.

How did the Fund perform during the fiscal year in light of the existing market conditions?

For the fiscal year ended August 31, 2004, the Common Stock of MuniVest Fund, Inc. had net annualized yields of 6.66% and 7.10%, based on a period-end per share net asset value of \$9.91 and a per share market price of \$9.30, respectively, and \$.660 per share income dividends. Over the same period, the total investment return on the Fund's Common Stock was +11.60%, based on a change in per share net asset value from \$9.54 to \$9.91, and assuming reinvestment of \$.657 per share ordinary income dividends.

The Fund's total return, based on net asset value, exceeded the +11.01% average return of the Lipper General Municipal Debt Funds (Leveraged) category for the 12 months ended August 31, 2004. (Funds in this Lipper category invest primarily in municipal debt issues rated in the top four credit-rating categories. These funds can be leveraged via use of debt, preferred equity and/or reverse repurchase agreements.) The Fund was able to achieve this favorable result despite maintaining a modest defensive position throughout most of the reporting period. Recently, performance has been

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MUNIVEST FUND, INC.

AUGUST 31, 2004

aided both by the Fund's above-average dividend yield and positive security selection.

For the six-month period ended August 31, 2004, the total investment return on the Fund's Common Stock was +0.54%, based on a change in per share net asset value from \$10.23 to \$9.91, and assuming reinvestment of \$.336 per share income dividends.

For a description of the Fund's total investment return based on a change in the per share market value of the Fund's Common Stock (as measured by the trading price of the Fund's shares on the American Stock Exchange), and assuming reinvestment of dividends, please refer to the Financial Highlights section of this report. As a closed-end fund, the Fund's shares may trade in the secondary market at a premium or discount to the Fund's net asset value. As a result, total investment returns based on changes in the market value of the Fund's Common Stock can vary significantly from total investment returns based on changes in the Fund's net asset value.

What changes were made to the portfolio during the period?

In general, we continued to focus on adding higher-yielding, lower-rated bonds to the portfolio whenever they were attractively priced. These issues allowed the Fund to distribute an above-average market yield and performed well as the municipal bond market improved in the latter months of the Fund's fiscal year.

In addition, we significantly increased the Fund's holdings in California general obligation (GO) bonds and other state-related issues. Earlier this year, in response to the negative publicity surrounding the state's budgetary difficulties, prices of California GO bonds materially weakened relative to the rest of the tax-exempt market. We viewed this as an attractive opportunity to add fundamentally strong credit issues at distressed levels. This proved to be a beneficial decision, as California state issues were recently upgraded by the major credit-rating agencies. The resultant market price improvement for these bonds positively impacted the Fund's performance.

For the six-month period ended August 31, 2004, the Fund's Auction Market Preferred Stock (AMPS) had average yields as follows: Series A, 1.10%; Series B, .94%; Series C, 1.00%; Series D, 1.13%; and Series E, .97%. These attractive funding levels, even after the recent interest rate increases, continued to generate a significant income benefit to the Fund's Common Stock shareholders. While additional interest rate hikes are anticipated, future increases are not expected to be sizeable or protracted. Most importantly, the spread between short-term and long-term tax-exempt interest rates has remained historically wide. In fact, the spread at period-end was wider than it was at the end of August 2000 and August 2001. Of course, should the spread between short-term and long-term interest rates narrow, the benefits of leveraging will decline and, as a result, reduce the yield on the Fund's Common Stock. At the end of the period, the Fund's leverage amount, due to AMPS, was 35.45% of total net assets, before the deduction of Preferred Stock. (For a more complete explanation of the benefits and risks of leveraging, see page 2 of this report to shareholders.)

How would you characterize the Fund's position at the close of the period?

We ended the period in a defensive position with respect to future interest rate movements. Low historic bond yields suggest that an emphasis on higher-yielding instruments over more interest rate sensitive issues is the more prudent long-term strategy. Consequently, the Fund is structured to perform better in

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stable-to-rising interest rate environments. We intend to keep limited cash reserves in an effort to enhance the Fund's dividend income stream.

Looking ahead, we believe that economic growth will remain moderate and should eventually translate into modestly higher interest rate levels. The strong technical environment municipal bonds have enjoyed is expected to continue in the coming months, insulating the tax-exempt market from much of the anticipated interest rate volatility.

Fred K. Stuebe  
Vice President and Portfolio Manager

September 22, 2004

MUNIVEST FUND, INC.

AUGUST 31, 2004

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments

(in Thousands)

State	S&P Ratings+	Moody's Ratings+	Face Amount	Municipal Bonds
=====				
Alabama--4.4%	BBB	NR*	\$ 2,550	Camden, Alabama, IDB, Exempt Facilities Rev (Company), Series A, 6.125% due 12/01/2024
	BBB	Baa2	7,500	Courtland, Alabama, IDB, Solid Waste Dispos (Champion International Corporation Project) due 9/01/2025
	NR*	A2	3,500	Huntsville, Alabama, Health Care Authority Series A, 5.75% due 6/01/2031
	NR*	A2	7,000	Series B, 5.75% due 6/01/2032
	BBB	Baa2	5,000	Selma, Alabama, IDB, Environmental Improvement Bonds (International Paper Company Project) due 5/01/2020
=====				
Alaska--1.4%	AAA	Aaa	3,575	Anchorage, Alaska, Lease Revenue Bonds (Corporation), Series A, 6% due 2/01/2014
	AAA	Aaa	3,830	6% due 2/01/2016
	=====			
Arizona--1.0%	NR*	Baa3	4,375	Maricopa County, Arizona, IDA, Education Revenue Bonds (Charter Schools Project 1), Series A, 6.75% due 7/01/2031
	NR*	Baa3	500	Pima County, Arizona, IDA, Education Revenue Bonds (Charter Schools Project), Series I: 6.10% due 7/01/2024
	NR*	Baa3	1,000	6.30% due 7/01/2031
=====				
California--25.3%	AAA	Aaa	10,000	California State, GO, Refunding: 5% due 2/01/2031 (c)
	A	A3	9,600	5.125% due 6/01/2031
	A-	Baa1	3,170	California State Public Works Board, Lease Revenue Bonds (California Community Colleges), Series A, 5.75% due 6/01/2031
	A-	Baa1	5,000	(Department of Corrections), Series C, 5.75% due 6/01/2031
	A-	Baa1	6,000	(Department of Corrections), Series C, 5.75% due 6/01/2031
	A-	Baa1	19,415	(Department of Mental Health--Coalinga), Series A, 5.125% due 6/01/2029
	A	Aaa	13,570	California State, Various Purpose, GO: 5.50% due 4/01/2030
	=====			

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	A	A3	21,250	5.50% due 11/01/2033
	A	A3	5,240	California Statewide Communities Development Facility Revenue Bonds (Memorial Health Ser due 10/01/2023 Golden State Tobacco Securitization Corpora Tobacco Settlement Revenue Bonds:
	BBB	Baa3	7,280	Series A-3, 7.875% due 6/01/2042
	BBB	Baa3	3,250	Series A-4, 7.80% due 6/01/2042
	BBB	Baa3	1,125	Series A-5, 7.875% due 6/01/2042
	A-	Baa1	13,900	Series B, 5.375% due 6/01/2028
	A-	Baa1	8,850	Series B, 5.50% due 6/01/2033
	AAA	Aaa	15,000	Series B, 5.50% due 6/01/2033 (f)
	AAA	Aaa	5,000	Series B, 5.50% due 6/01/2043 (f)
=====				
Colorado--2.7%				Arapahoe County, Colorado, School District (Cherry Creek):
	AA	Aa2	5,750	6% due 12/15/2013
	AA	Aa2	4,165	6% due 12/15/2014
				Colorado HFA, Revenue Refunding Bonds (S/F Series A-2:
	NR*	Aa2	1,465	6.60% due 5/01/2028
	NR*	Aa2	550	7.50% due 4/01/2031
	A-	A3	3,000	Colorado Health Facilities Authority Revenue Center), Series A, 5.25% due 6/01/2034

Portfolio Abbreviations

To simplify the listings of 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 at right.

AMT	Alternative Minimum Tax (subject to)
DRIVERS	Derivative Inverse Tax-Exempt Receipts
GO	General Obligation Bonds
HDA	Housing Development Authority
HFA	Housing Finance Agency
IDA	Industrial Development Authority
IDB	Industrial Development Board
IDR	Industrial Development Revenue Bonds
M/F	Multi-Family
PCR	Pollution Control Revenue Bonds
RIB	Residual Interest Bonds
RITR	Residual Interest Trust Receipts
S/F	Single-Family

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MUNIVEST FUND, INC.

AUGUST 31, 2004

Schedule of Investments (continued)

(in Thousands)

State	S&P Ratings+	Moody's Ratings+	Face Amount	Municipal Bonds
Connecticut--0.5%	BBB-	NR*	\$ 2,810	Mohegan Tribe Indians, Connecticut, Gaming Improvement Revenue Refunding Bonds (Priori due 1/01/2031

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Florida--1.1%	A	A2	5,000	Highlands County, Florida, Health Facilities Revenue Bonds (Adventist Health System), Series 11/15/2035
	A	A2	1,880	Orange County, Florida, Health Facilities Revenue Bonds (Adventist Health System), Series 11/15/2035
=====				
Georgia--2.5%	A+	A2	4,600	Georgia Municipal Electric Authority, Power Series W, 6.60% due 1/01/2018
	A	A2	250	Series W, 6.60% due 1/01/2018 (e)
	A	A2	250	Series Y, 10% due 1/01/2010 (e)
				Milledgeville-Baldwin County, Georgia, Development Authority Revenue Bonds (Georgia College and State University)
	BBB	NR*	1,250	5.50% due 9/01/2024
	BBB	NR*	2,000	5.625% due 9/01/2030
	A	A3	4,785	Monroe County, Georgia, Development Authority Revenue Bonds (Oglethorpe Power Corporation--Scherer), Series 1/01/2011
=====				
Idaho--0.2%	NR*	Aaa	1,145	Idaho Housing Agency, S/F Mortgage Revenue Bonds Series E-2, 6.90% due 1/01/2027
=====				
Illinois--19.7%	AAA	Aaa	3,005	Chicago, Illinois, GO (Neighborhoods Alive) Revenue Bonds, Series 6% due 1/01/2016 (f)
	AAA	Aaa	5,000	Chicago, Illinois, O'Hare International Airport Revenue Refunding Bonds, Third Lien, AMT, Series 1/01/2019 (c)
				Chicago, Illinois, O'Hare International Airport Revenue Refunding Bonds, Third Lien, Series 3/01/2032 (b) (d) (l)
	AAA	Aaa	11,200	3rd Lien, Series B-2, 6% due 1/01/2022
	AAA	NR*	8,540	Series 368, DRIVERS, 9.338% due 7/01/2023
	AAA	NR*	7,000	Chicago, Illinois, O'Hare International Airport Revenue Refunding Bonds, DRIVERS, AMT, Series 253, 9.854% due 1/01/2019 (c)
	AAA	Aaa	135	Chicago, Illinois, S/F Mortgage Revenue Bonds Series E-2, 6.90% due 1/01/2027
	AAA	Aaa	5,000	Cook County, Illinois, Community High School District Number 12, GO, 6% due 12/01/2017 (f)
	BBB	Baa1	10,000	Hodgkins, Illinois, Environmental Improvement Project (Biosolids Management LLC Project), AMT, 6% due 1/01/2019 (i)
	BBB	NR*	2,140	Illinois Development Finance Authority Revenue Bonds (Community Rehabilitation Providers Facility), Series 1/01/2019 (i)
	BBB	NR*	1,365	Illinois Development Finance Authority Revenue Bonds (Community Rehabilitation Providers), Series 1/01/2019 (i)
	A+	A1	6,040	Illinois HDA, Revenue Refunding Bonds (M/F) Series 9/01/2023
	AA+	Aa2	5,500	Illinois State Finance Authority Revenue Bonds (Memorial Hospital), Series A, 5.50% due 8/1/2023
	NR*	Aaa	2,500	Kane, Cook and Du Page Counties, Illinois, Revenue Refunding Bonds, Series 1/01/2019 (i)
	NR*	Aaa	5,245	Kane and De Kalb Counties, Illinois, Community High School District Number 302, GO, DRIVERS, Series 283, 9.885% due 1/01/2019 (i)
				Mc Lean and Woodford Counties, Illinois, Community High School District Number 005, GO, Refunding (i):
	NR*	Aaa	5,000	6.25% due 12/01/2014
NR*	Aaa	4,000	6.375% due 12/01/2016	
AAA	NR*	18,550	Metropolitan Pier and Exposition Authority, Revenue Refunding Bonds, DRIVERS, Series 6/15/2023 (c) (f) (j)	
			Regional Transportation Authority, Illinois Revenue Refunding Bonds, Series A, 7.20% due 11/01/2020 (h)	
AAA	Aaa	3,500	Series A, 7.20% due 11/01/2020 (h)	
AAA	Aaa	4,000	Series C, 7.75% due 6/01/2020 (f)	
AAA	Aaa	3,000	Will County, Illinois, Environmental Revenue Refunding Bonds (Refining Corporation Project), AMT, 6.40% due 1/01/2019 (i)	
			Will County, Illinois, School District Number 10, GO, 6.40% due 1/01/2019 (i)	



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			Elementary), GO, Series A (i):
NR*	Aaa	55	6.50% due 11/01/2010 (a)
NR*	Aaa	945	6.50% due 11/01/2013
NR*	Aaa	1,375	6.50% due 11/01/2015

MUNIVEST FUND, INC.

AUGUST 31, 2004

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments (continued)

(in Thousands)

State	S&P Ratings+	Moody's Ratings+	Face Amount	Municipal Bonds
Indiana--6.9%	BBB	Baa1	\$ 1,700	Fort Wayne, Indiana, PCR, Refunding (General Project), 6.20% due 10/15/2025
	AA-	A1	6,500	Indiana Health Facility Financing Authority Refunding Bonds (Clarian Health Partners Inc) due 2/15/2021
	NR*	Aaa	4,290	Indiana State, HFA, S/F Mortgage Revenue Refunding Bonds, 6.80% due 1/01/2017 (k)
	AA-	NR*	8,195	Indiana Transportation Finance Authority, Series A, 6.80% due 12/01/2016
	AA	NR*	15,335	Indianapolis, Indiana, Local Public Improvement Refunding Bonds, Series D, 6.75% due 2/01/2021
Kansas--0.7%	NR*	Aaa	3,805	Sedgwick and Shawnee Counties, Kansas, S/F (Mortgage Backed Securities Program), AMT, due 12/01/2033 (b) (d)
Louisiana--2.7%	BBB	Baa2	4,000	De Soto Parish, Louisiana, Environmental Improvement Refunding Bonds (International Paper Co. Project), 6.55% due 4/01/2019
	AAA	Aaa	10,575	Louisiana Local Government, Environmental Fund Development Authority Revenue Bonds (Capital Acquisition), Series A, 6.30% due 7/01/2030
Maine--0.3%				Portland, Maine, Housing Development Corporation Revenue Bonds (Avesta Housing Development Corporation) Series A:
	NR*	Baa2	775	5.70% due 8/01/2021
	NR*	Baa2	1,190	6% due 2/01/2034
Massachusetts--7.8%	AAA	Aaa	2,035	Boston, Massachusetts, Water and Sewer Commission, 9.25% due 1/01/2011 (e)
	AA	Aa2	3,010	Massachusetts Bay Transportation Authority, (General Transportation System), Series A, 6.50% due 7/15/2019
	AA	Aa3	30,000	Massachusetts State Water Resource Authority Revenue Bonds, Series A (f):
	AAA	Aaa	1,000	6% due 8/01/2014
	AAA	Aaa	2,480	6% due 8/01/2017
Michigan--3.7%	BBB	Baa2	7,695	Delta County, Michigan, Economic Development and Environmental Improvement Revenue Refunding Bonds, Series A, 6.50% due 11/01/2015

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				Westvaco-Escanaba), Series A, 6.25% due 4/1
				Macomb County, Michigan, Hospital Finance A
				Revenue Bonds (Mount Clemens General Hospit
	BBB-	NR*	3,715	5.75% due 11/15/2025
	BBB-	NR*	5,250	5.875% due 11/15/2034
	AAA	Aa2	390	Michigan State Hospital Finance Authority,
	AAA	Aaa	3,000	(Ascension Health Credit), Series A,
				(Ascension Health Credit), Series A,
				11/15/2009 (a) (c)
	B	Ba1	1,300	(Detroit Medical Center Obligation Gr
				due 8/15/2013
	NR*	Ba3	1,000	(Sinai Hospital), 6.70% due 1/01/2026
===== Minnesota--1.5%	NR*	A3	7,235	Minneapolis, Minnesota, Health Care System
				Health System), Series A, 5.75% due 11/15/2
	NR*	Aaa	1,405	Saint Cloud, Minnesota, Health Care Revenue
				Cloud Hospital Obligation Group), Series A,
===== Mississippi--4.8%				Lowndes County, Mississippi, Solid Waste Di
				(Weyerhaeuser Company Project):
	BBB	Baa2	3,650	Series A, 6.80% due 4/01/2022
	BBB	Baa2	4,000	Series B, 6.70% due 4/01/2022
	BBB-	Ba1	20,705	Mississippi Business Finance Corporation, M
				Refunding (System Energy Resources Inc. Pro
				due 4/01/2022
===== Missouri--0.5%	BBB+	Baa1	2,600	Missouri State Development Finance Board, I
				Revenue Refunding Bonds (Branson), Series A
	AAA	NR*	450	Missouri State Housing Development Commissi
				Bonds (Homeowner Loan), AMT, Series A, 7.50
===== Montana--1.0%	BBB+	Baa2	6,000	Forsyth, Montana, PCR, Refunding (Portland
				Company), Series A, 5.20% due 5/01/2033
===== Nebraska--0.2%	AAA	NR*	960	Nebraska Investment Finance Authority, S/F
				AMT, Series C, 6.30% due 9/01/2028 (b) (d) (1

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MUNIVEST FUND, INC.

AUGUST 31, 2004

Schedule of Investments (continued)

(in Thousands)

State	S&P Ratings+	Moody's Ratings+	Face Amount	Municipal Bonds
===== Nevada--2.4%	AAA	Aaa	\$ 6,700	Clark County, Nevada, IDR (Power Company Pr
				6.70% due 6/01/2022 (f)
	AA	Aa2	1,600	Clark County, Nevada, Public Safety, GO, 6%
	AAA	NR*	3,475	Nevada Housing Division Revenue Bonds, Mult
	AAA	Aa2	1,235	(Arville Electric Project), AMT, 6.60
				Issue B, 7.45% due 10/01/2017
	AAA	Aaa	445	Nevada Housing Division Revenue Bonds, (S/F
	NR*	Aa2	225	Senior Series E, 7% due 10/01/2019
				Series A, 6.55% due 10/01/2012
===== New Hampshire--0.4%	BBB+	Baa1	2,425	New Hampshire Health and Education Faciliti
				Refunding Bonds (Elliot Hospital), Series B

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New Jersey--1.7%	AAA	Aaa	800	New Jersey State Housing and Mortgage Finance Authority, Series M, 6.95% due 10/1/2041
	BBB	Baa3	10,230	Tobacco Settlement Financing Corporation of New Jersey, Series A, 7% due 6/01/2041
New Mexico--0.5%	BBB-	Baa2	3,300	Farmington, New Mexico, PCR, Refunding (Public Works), Series A, 5.80% due 4/01/2026
New York--9.2%	NR*	Aa2	7,875	New York City, New York, City Transitional Revenue Bonds, RIB, Series 283, 10.88% due 11/15/2033
	A	A2	7,150	New York City, New York, GO: Series F, 5.25% due 1/15/2033
	AAA	A2	520	Series I, 6.25% due 4/15/2007 (a) (m)
	AAA	Aaa	380	Series I, 6.25% due 4/15/2017 (m)
	AAA	A2	1,680	Series I, 6.25% due 4/15/2017 (a) (m)
	AAA	Aaa	630	Series I, 6.25% due 4/15/2027 (m)
	A	A2	5,110	Sub-Series C-1, 5.25% due 8/15/2026
	A	A2	3,410	Sub-Series C-1, 5.10% due 8/15/2027
	AAA	A2	4,550	New York City, New York, GO, Refunding, Series A, 6.375% due 5/15/2010 (a)
	AAA	A2	3,450	6.375% due 5/15/2014
New York--9.2%	BB	Ba1	1,000	New York State Dormitory Authority, Revenue Bonds (Mount Sinai Health), Series A, 6.50% due 5/15/2015
	AAA	NR*	11,875	RIB, Series 305, 10.38% due 5/15/2015
Oregon--1.1%	NR*	Aaa	2,000	Portland, Oregon, Airport Way, Urban Renewal Bonds, Series A, 6% due 8/01/2020 (f) (j)
	NR*	Aaa	3,305	Portland, Oregon, Sewer System Revenue Bonds, Series A, 6% due 8/01/2020 (f) (j)
Pennsylvania--4.2%	AAA	Aaa	2,440	Pennsylvania State Higher Education Assistance Authority, Series A, 6.125% due 12/15/2010
	A	NR*	6,250	Pennsylvania State Higher Educational Facilities Authority, Series A, 6% due 1/15/2031
				Philadelphia, Pennsylvania, Authority for Independent Living Revenue Bonds:
	NR*	Baa2	1,000	(Arbor House Inc. Project), Series E, 6.125% due 12/15/2010
	NR*	Baa2	1,355	(Rieder House Project), Series A, 6.125% due 12/15/2010
	A-	NR*	9,280	Sayre, Pennsylvania, Health Care Facilities Revenue Bonds (Guthrie Health Issue), Series B, 7.125% due 12/15/2010
				Sayre, Pennsylvania, Health Care Facilities Revenue Bonds (Guthrie Healthcare System), Series A, 6.25% due 12/01/2018
			6.25% due 12/01/2018	
			5.75% due 12/01/2021	
South Carolina--1.6%	BBB+	Baa2	2,450	Medical University, South Carolina, Hospital Revenue Refunding Bonds, 6.50% due 1/01/2026
	BBB	Baa2	5,000	Richland County, South Carolina, Environmental Revenue Refunding Bonds (International Paper), AMT, 5.70% due 1/01/2026
	B-	B1	2,000	York County, South Carolina, Industrial Revenue Refunding Bonds (Celanese Corporation), AMT, 5.70% due 1/01/2026
Tennessee--1.5%	BB	Ba2	2,000	McMinn County, Tennessee, IDB, Solid Waste Facility--Calhoun Newsprint), AMT, 7.40% due 9/01/2026
	A-	A3	6,500	Shelby County, Tennessee, Health, Education and Welfare Board, Hospital Revenue Refunding Bonds (Memphis), Series A, 6.50% due 9/01/2026

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MUNIVEST FUND, INC.

AUGUST 31, 2004

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments (continued)

(in Thousands)

State	S&P Ratings+	Moody's Ratings+	Face Amount	Municipal Bonds
Texas--19.6%				Austin, Texas, Convention Center Revenue Bonds (Austin Enterprises Inc.), First Tier, Series A: 6.70% due 1/01/2028
	BBB-	Baa3	\$ 6,000	6.70% due 1/01/2028
	BBB-	Baa3	1,290	6.70% due 1/01/2032
	BBB	Baa2	3,000	Brazos River Authority, Texas, PCR, Refunding Bonds (Texas Utilities Electric Company Project), Series A, 6.75% due 5/01/2029
	BBB	Baa2	3,055	(Texas Utility Company), Series A, 7.00% due 11/01/2030
	BBB	Baa2	12,300	(Utilities Electric Company), Series A, 6.75% due 11/01/2030
	A-	A3	11,460	Brazos River, Texas, Harbor Navigation District Environmental Revenue Refunding Bonds (Dow Chemical Company Project), AMT, Series A-7, 6.625% due 5/15/2025
	AA	NR*	3,000	Gregg County, Texas, Health Facilities Development Revenue Bonds (Good Shepherd Medical Center), Series G, 6.875% due 10/01/2020 (g)
	AA-	Aa3	10,250	Guadalupe-Blanco River Authority, Texas, Sewer Disposal Facility Revenue Bonds (E. I. du Pont Company Project), AMT, 6.40% due 4/01/2026
	BBB	Baa2	4,000	Gulf Coast, Texas, IDA (Champion International Paper Company Project), AMT, 7.125% due 4/01/2010
	BBB	Baa2	3,000	Gulf Coast, Texas, Waste Disposal Authority Revenue Bonds (International Paper Company), AMT, Series A, 6.75% due 11/01/2030
	AAA	Aaa	5,500	Harris County, Houston, Texas, Sports Authority Revenue Bonds, Senior Lien, Series G, 5.75% due 7/15/2014
	NR*	Aa3	10,385	Harris County, Texas, Health Facilities Development Revenue Refunding Bonds, RITR, Series 6, 9.00% due 11/01/2030
	NR*	Baa3	1,800	Houston, Texas, Industrial Development Corporation (Air Cargo), AMT, 6.375% due 1/01/2023
	AAA	Aaa	2,030	Mansfield, Texas, Independent School District Revenue Bonds, Series A, 6.625% due 2/15/2015
	BBB	Baa2	9,855	Matagorda County, Texas, Navigation District Refunding Bonds (Centerpoint Energy Project), Series A, 6.75% due 11/01/2030
	NR*	Aaa	5,225	Midway, Texas, Independent School District, Series A, 6.375% due 8/15/2014
	B-	Ba3	5,400	Port Corpus Christi, Texas, Revenue Refunding Bonds (Port of Corpus Christi Authority Project), Series A, 6.45% due 11/01/2030
	B-	Ba3	5,000	Red River Authority, Texas, PCR, Refunding Bonds, Series B, 6.70% due 11/01/2030
	NR*	Aa1	6,250	San Antonio, Texas, Electric and Gas Revenue Bonds, Series 469x, 9.91% due 2/01/2014 (j)
Vermont--0.2%	BBB+	NR*	1,000	Vermont Educational and Health Buildings Financing Revenue Bonds (Vermont State Developmental and Mental Health Revenue Bonds Human Services), Series A, 6.375% due 6/15/2014
Virginia--1.1%	BBB+	A3	1,425	Chesterfield County, Virginia, IDA, PCR (Vermont State Developmental and Mental Health Revenue Bonds Human Services), Series A, 5.875% due 6/01/2017
	BBB	Baa2	1,500	Isle of Wight County, Virginia, IDA, Solid Waste Revenue Bonds (Union Camp Corporation Project), Series A, 6.75% due 11/01/2030

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	AAA	Aaa	3,320	due 4/01/2024 Virginia State, HDA, Commonwealth Mortgage Sub-Series J-1, 5.20% due 7/01/2019 (c)
=====				
Washington--8.6%				Energy Northwest, Washington, Electric Revenue DRIVERS (j):
	AAA	NR*	5,330	Series 248, 9.885% due 7/01/2018 (c)
	AAA	NR*	3,510	Series 255, 10.38% due 7/01/2018 (h)
	AAA	NR*	7,350	Series 256, 10.384% due 7/01/2017 (c)
	NR*	NR*	2,460	Seattle, Washington, Housing Authority Revenue Housing Project), 6.125% due 12/01/2032
	AAA	Aaa	8,100	Washington State, GO, Trust Receipts, Class due 1/01/2014 (i) (j)
	AA-	Aa1	14,320	Washington State Public Power Supply System (Nuclear Project Number 1), Series B, 7.125%
=====				