BLACKROCK MUNIVEST FUND II INC Form N-PX August 15, 2007

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

FORM N-PX

ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act File Number 811-07478

Name of Fund: BlackRock MuniVest Fund II, Inc.

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

Name and address of agent for service: Robert C. Doll, Jr., Chief Executive Officer, BlackRock MuniVest Fund II, 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: 10/31

Date of reporting period: 07/01/06 - 06/30/07

Pursuant to the requirements of 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.

By: /s/ Robert C. Doll, Jr. Robert C. Doll, Jr. Chief Executive Officer BlackRock MuniVest Fund II, Inc.

Date: August 13, 2007