

BLACKROCK MUNIYIELD PENNSYLVANIA QUALITY FUND
Form N-Q
December 22, 2010

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

FORM N-Q

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED
MANAGEMENT INVESTMENT COMPANY**

Investment Company Act file number 811-07136

Name of Fund: BlackRock MuniYield Pennsylvania Quality Fund (MPA)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Anne F. Ackerley, Chief Executive Officer, BlackRock
MuniYield Pennsylvania Quality Fund, 55 East 52nd Street, New York, NY 10055

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

Date of fiscal year end: 07/31/2011

Date of reporting period: 10/31/2010

Item 1 Schedule of Investments

Schedule of Investments October 31, 2010 (Unaudited)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| Pennsylvania 107.1% | | |
| Corporate 6.1% | | |
| Beaver County IDA, Refunding RB, VRDN, FirstEnergy, Mandatory Put Bonds, 3.38%, 1/01/35 | \$ 1,200 | \$ 1,197,132 |
| Delaware County IDA Pennsylvania, Refunding RB, Water Facilities, Aqua Pennsylvania Inc. Project, Series B, AMT (NPFGC), 5.00%, 11/01/36 | 2,520 | 2,553,365 |
| Northumberland County IDA, Refunding RB, Aqua Pennsylvania Inc. Project, AMT (NPFGC), 5.05%, 10/01/39 | 6,000 | 6,046,440 |
| Pennsylvania Economic Development Financing Authority, RB, Waste Management Inc. Project, Series A, AMT, 5.10%, 10/01/27 | 1,200 | 1,218,120 |
| | | 11,015,057 |
| County/City/Special District/School District 41.1% | | |
| Chambersburg Area School District, GO (NPFGC): | | |
| 5.25%, 3/01/26 | 2,115 | 2,296,594 |
| 5.25%, 3/01/27 | 2,500 | 2,703,050 |
| City of Philadelphia Pennsylvania, GO, Refunding, Series A (AGM), 5.25%, 12/15/32 | 7,000 | 7,310,100 |
| Connellsville Area School District, GO, Series B (AGM), 5.00%, 11/15/37 | 1,000 | 1,018,330 |
| Delaware Valley Regional Financial Authority, RB, Series A (AMBAC), 5.50%, 8/01/28 | 2,230 | 2,417,721 |
| East Stroudsburg Area School District, GO, Series A (NPFGC), 7.75%, 9/01/27 | 2,000 | 2,479,860 |

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| | | |
|--|-------|-----------|
| Erie County Conventional Center Authority, RB (NPFGC), 5.00%, 1/15/36 | 8,850 | 9,044,700 |
| Marple Newtown School District, GO (AGM), 5.00%, 6/01/31 | 3,500 | 3,739,050 |
| North Allegheny School District, GO, Series C (AGM), 5.25%, 5/01/27 | 2,175 | 2,287,795 |
| Northeastern School District York County, GO, Series B (NPFGC), 5.00%, 4/01/32 | 1,585 | 1,656,579 |
| Philadelphia Redevelopment Authority, RB (NPFGC): Neighborhood Transformation, Series A, 5.50%, 4/15/22 | 1,750 | 1,815,712 |

| Municipal Bonds | Par (000) | Value |
|---|----------------|------------------------|
| Pennsylvania (continued) | | |
| County/City/Special District/School District (concluded) | | |
| Philadelphia Redevelopment Authority, RB (NPFGC) (concluded): Quality Redevelopment Neighborhood, Series B, AMT, 5.00%, 4/15/27 | \$ 4,645 | \$ 4,655,916 |
| Philadelphia School District, GO, Refunding, Series A (BHAC), 5.00%, 6/01/34 | 1,000 | 1,086,470 |
| Philadelphia School District, GO: Series B (FGIC), 5.63%, 8/01/12 (a) Series E, 6.00%, 9/01/38 | 7,500 4,800 | 8,175,525 5,234,448 |
| Reading School District, GO (AGM), 5.00%, 1/15/29 | 6,000 | 6,311,040 |
| Scranton School District Pennsylvania, GO, Series A (AGM), 5.00%, 7/15/38 | 3,500 | 3,628,345 |
| Shaler Area School District Pennsylvania, GO, CAB (Syncora), 4.81%, 9/01/30 (b) | 6,145 | 2,331,106 |
| Township of North Londonderry Pennsylvania, GO (AGM), 4.75%, | | |

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| | | |
|--|-------|------------|
| 9/01/40 | 4,360 | 4,454,220 |
| York City School District, GO, Series A (Syncora), 5.25%, 6/01/22 | 1,040 | 1,121,869 |
| | | 73,768,430 |

Education 6.4%

| | | |
|--|-------|------------|
| Adams County IDA, Refunding RB, Gettysburg College, 5.00%, 8/15/26 | 100 | 108,032 |
| Pennsylvania Higher Educational Facilities Authority, RB (NPFGC): Drexel University, Series A, 5.00%, 5/01/37 | 2,250 | 2,295,270 |
| Series AE, 4.75%, 6/15/32 | 8,845 | 9,059,403 |
| | | 11,462,705 |

Health 15.1%

| | | |
|--|-------|-----------|
| Allegheny County Hospital Development Authority, RB, Health Center, UPMC Health, Series B (NPFGC), 6.00%, 7/01/26 | 2,000 | 2,389,720 |
| County of Lehigh Pennsylvania, RB, Lehigh Valley Health Network, Series A (AGM), 5.00%, 7/01/33 | 7,995 | 8,214,863 |
| Cumberland County Municipal Authority, RB, Diakon Lutheran, 6.38%, 1/01/39 | 500 | 528,440 |

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

| | | | |
|-------|---|-------|---|
| AGC | Assured Guaranty Corp. | GO | General Obligation Bonds |
| AGM | Assured Guaranty Municipal Corp. | HFA | Housing Finance Agency |
| AMBAC | American Municipal Bond Assurance Corp. | IDA | Industrial Development Authority |
| AMT | Alternative Minimum Tax (subject to) | LRB | Lease Revenue Bonds |
| BHAC | Berkshire Hathaway Assurance Corp. | NPFGC | National Public Finance Guarantee Corp. |
| CAB | Capital Appreciation Bonds | RB | Revenue Bonds |
| FGIC | Financial Guaranty Insurance Co. | S/F | Single Family |
| FHA | Federal Housing Administration | VRDN | Variable Rate Demand Notes |

BLACKROCK MUNIYIELD PENNSYLVANIA QUALITY FUND

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Schedule of Investments^(continued)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| Pennsylvania (continued) | | |
| Health (concluded) | | |
| Lycoming County Authority, Refunding RB, Susquehanna Health System Project, Series A, 5.75%, 7/01/39 | \$ 1,160 | \$ 1,205,623 |
| Monroe County Hospital Authority Pennsylvania, Refunding RB, Hospital, Pocono Medical Center, 5.13%, 1/01/37 | 1,265 | 1,260,383 |
| Montgomery County Higher Education & Health Authority, Refunding RB, Abington Memorial Hospital, Series A, 5.13%, 6/01/33 | 1,760 | 1,786,171 |
| Montgomery County IDA Pennsylvania, RB: Acts Retirement Life Community, Series A, 4.50%, 11/15/36 | 380 | 314,917 |
| Acts Retirement Life Community, Series A-1, 6.25%, 11/15/29 | 235 | 250,348 |
| New Regional Medical Center Project (FHA), 5.38%, 8/01/38 | 1,600 | 1,686,176 |
| Pennsylvania Higher Educational Facilities Authority, RB, UPMC Health System, Series A, 6.00%, 1/15/11 (a) | 3,000 | 3,066,480 |
| Philadelphia Hospitals & Higher Education Facilities Authority, Refunding RB, Presbyterian Medical Center, 6.65%, 12/01/19 (c) | 3,000 | 3,726,600 |
| Sayre Health Care Facilities Authority, Refunding RB, Guthrie Health, Series A, 5.88%, 12/01/31 | 590 | 601,375 |
| South Fork Municipal Authority, Refunding RB, Conemaugh Valley | | |

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| | | |
|---|-------|-------------------------|
| Memorial, Series B (AGC), 5.38%, 7/01/35 | 2,000 | 2,077,020 27,108,116 |
|---|-------|-------------------------|

Housing 2.7%

Pennsylvania HFA, Refunding RB, AMT:

S/F Mortgage, Series 92-A, 4.75%,

| | | |
|---------|-----|---------|
| 4/01/31 | 740 | 739,970 |
|---------|-----|---------|

| | | |
|----------------------------|-----|---------|
| Series 99A, 5.15%, 4/01/38 | 800 | 850,016 |
|----------------------------|-----|---------|

Philadelphia New Public Housing

Authority, RB, Series A (AGM), 5.50%,

| | | |
|----------|-------|-----------|
| 12/01/18 | 3,000 | 3,182,760 |
|----------|-------|-----------|

4,772,746

State 5.2%

Pennsylvania Turnpike Commission, RB,

Series C of 2003 Pennsylvania

| | | |
|-----------------------------------|-------|-----------|
| Turnpike (NPFGC), 5.00%, 12/01/32 | 3,600 | 3,783,060 |
|-----------------------------------|-------|-----------|

State Public School Building Authority,

RB, CAB, Corry Area School District

(AGM) (b):

| | | |
|-----------------|-------|-----------|
| 4.85%, 12/15/22 | 1,640 | 1,039,153 |
|-----------------|-------|-----------|

| | | |
|-----------------|-------|-----------|
| 4.87%, 12/15/23 | 1,980 | 1,194,178 |
|-----------------|-------|-----------|

| | | |
|-----------------|-------|-----------|
| 4.89%, 12/15/24 | 1,980 | 1,139,391 |
|-----------------|-------|-----------|

| | | |
|-----------------|-------|---------|
| 4.92%, 12/15/25 | 1,770 | 963,623 |
|-----------------|-------|---------|

State Public School Building Authority,

Refunding RB, Harrisburg School

District Project, Series A (AGC), 5.00%,

| | | |
|----------|-------|-----------|
| 11/15/33 | 1,200 | 1,263,900 |
|----------|-------|-----------|

9,383,305

| | Par (000) | Value |
|--|--------------|-------|
|--|--------------|-------|

Pennsylvania (concluded)

Transportation 12.3%

Delaware River Port Authority, RB,

| | | |
|--------------------------------|----------|--------------|
| Series D (AGC), 5.00%, 1/01/40 | \$ 1,560 | \$ 1,629,919 |
|--------------------------------|----------|--------------|

Pennsylvania Turnpike Commission, RB:

Series A (AMBAC), 5.50%,

| | | |
|----------|-------|-----------|
| 12/01/31 | 7,800 | 8,421,348 |
|----------|-------|-----------|

Series A (AMBAC), 5.25%,

| | | |
|----------|-----|---------|
| 12/01/32 | 350 | 365,435 |
|----------|-----|---------|

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| | | |
|---|-------|-------------|
| Sub-Series B (AGM), 5.25%, 6/01/39 | 3,500 | 3,653,720 |
| Philadelphia Authority for Industrial Development, Refunding RB, Philadelphia Airport System Project, Series A, AMT (NPFGC): 5.50%, 7/01/17 | 4,000 | 4,121,680 |
| 5.50%, 7/01/18 | 3,655 | 3,772,435 |
| | | 21,964,537 |
| Utilities 18.2% | | |
| Allegheny County Sanitation Authority, Refunding RB, Series A (NPFGC), 5.00%, 12/01/30 | 5,000 | 5,105,550 |
| City of Philadelphia Pennsylvania, RB: 1998 General Ordinance, 4th Series (AGM), 5.00%, 8/01/32 | 4,500 | 4,535,325 |
| Ninth Series, 5.25%, 8/01/40 | 1,430 | 1,442,269 |
| Series A, 5.25%, 1/01/36 | 700 | 736,498 |
| Series C (AGM), 5.00%, 8/01/40 | 3,000 | 3,114,780 |
| Delaware County IDA Pennsylvania, RB, Pennsylvania Suburban Water Co. Project, Series A, AMT (AMBAC), 5.15%, 9/01/32 | 5,500 | 5,574,910 |
| Northampton Boro Municipal Authority, RB (NPFGC), 5.00%, 5/15/34 | 935 | 956,907 |
| Pennsylvania Economic Development Financing Authority, RB, Philadelphia Biosolids Facility, 6.25%, 1/01/32 | 900 | 971,568 |
| Pennsylvania IDA, Refunding RB, Economic Development (AMBAC), 5.50%, 7/01/20 | 7,000 | 7,340,200 |
| Reading Area Water Authority Pennsylvania, RB (AGM), 5.00%, 12/01/27 | 2,680 | 2,856,157 |
| | | 32,634,164 |
| Total Municipal Bonds in Pennsylvania | | 192,109,060 |
| Guam 1.9% | | |
| Transportation 1.4% | | |
| Guam International Airport Authority, Refunding RB, General, Series C, AMT (NPFGC), 5.00%, 10/01/23 | 2,500 | 2,488,150 |

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Utilities 0.5%

| | | |
|--|-----|-----------|
| Guam Power Authority, Refunding RB, Series A (AGM), 5.00%, 10/01/37 | 850 | 861,926 |
| Total Municipal Bonds in Guam | | 3,350,076 |

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OCTOBER 31, 2010

Schedule of Investments^(continued)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| Puerto Rico 0.7% | | |
| State 0.7% | | |
| Commonwealth of Puerto Rico, GO, Refunding, Public Improvement, Series A-4 (AGM), 5.25%, 7/01/30 | \$ 1,270 | \$ 1,337,437 |
| Total Municipal Bonds 109.7% | | 196,796,573 |
| Municipal Bonds Transferred to Tender | | |
| Option Bond Trusts (d) | | |
| Pennsylvania 44.2% | | |
| County/City/Special District/School District 4.2% | | |
| East Stroudsburg Area School District, GO, Refunding (AGM), 5.00%, 9/01/25 | 7,000 | 7,602,350 |
| Education 1.4% | | |
| University of Pittsburgh Pennsylvania, RB, Capital Project, Series B, 5.00%, 9/15/28 | 2,202 | 2,436,609 |
| Health 3.2% | | |
| Geisinger Authority, RB, Series A: 5.13%, 6/01/34 | 2,500 | 2,626,550 |
| 5.25%, 6/01/39 | 3,000 | 3,158,700 |
| | | 5,785,250 |
| Housing 1.6% | | |
| Pennsylvania HFA, Refunding RB, Series 96-A, AMT, 4.70%, 10/01/37 | 3,000 | 2,937,060 |
| State 29.6% | | |
| Commonwealth of Pennsylvania, GO, First Series, 5.00%, 3/15/28 | 5,203 | 5,757,820 |
| Pennsylvania Turnpike Commission, RB, Series C of 2003 Pennsylvania Turnpike (NPFGC), 5.00%, 12/01/32 | 10,000 | 10,508,500 |
| State Public School Building Authority, LRB, Philadelphia School District | | |

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| | | |
|--|-----------|--------------------------|
| Project (AGM), 5.25%, 6/01/13 (a) | 15,000 | 16,729,800 |
| State Public School Building Authority, Refunding RB, School District of Philadelphia Project, Series B (AGM), 5.00%, 6/01/26 | 19,025 | 20,022,738 53,018,858 |
| Transportation 4.2% | | |
| City of Philadelphia Pennsylvania, RB, Series A, AMT (AGM), 5.00%, 6/15/37 | 7,500 | 7,466,775 |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts 44.2% | | 79,246,902 |
| Total Long-Term Investments (Cost \$265,320,197) 153.9% | | 276,043,475 |
| Short-Term Securities | Shares | |
| BIF Pennsylvania Municipal Money Fund 0.00% (e)(f) | 5,149,376 | 5,149,376 |
| Total Short-Term Securities (Cost \$5,149,376) 2.9% | | 5,149,376 |
| | | Value |
| Total Investments (Cost \$270,469,573*) 156.8% | | \$ 281,192,851 |
| Other Assets Less Liabilities 1.7% | | 3,013,465 |
| Liability for Trust Certificates, Including Interest | | |
| Expense and Fees Payable (21.5)% | | (38,486,980) |
| Preferred Shares, at Redemption Value (37.0)% | | (66,354,894) |
| Net Assets Applicable to Common Shares 100.0% | | \$ 179,364,442 |

* The cost and unrealized appreciation (depreciation) of investments as of October 31, 2010, as computed for federal income tax purposes, were as follows:

| | |
|-------------------------------|----------------|
| Aggregate cost | \$ 232,035,288 |
| Gross unrealized appreciation | \$ 10,918,188 |
| Gross unrealized depreciation | (205,761) |
| Net unrealized appreciation | \$ 10,712,427 |

(a) US government securities, held in escrow, are used to pay interest on this security as well as to retire the bond in full at the date indicated, typically

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at a premium to par.

(b) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.

(c) Security is collateralized by Municipal or US Treasury obligations.

(d) Securities represent bonds transferred to a tender option bond trust in exchange for which the Fund acquired residual interest certificates.

These securities serve as collateral in a financing transaction.

(e) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| | Shares Held at July 31, 2010 | Net Activity | Shares Held at October 31, 2010 | Income |
|--------------|---------------------------------------|-----------------|--|--------|
| Affiliate | | | | |
| BIF | | | | |
| Pennsylvania | | | | |
| Municipal | | | | |
| Money Fund | 8,508,134 | (3,358,758) | 5,149,376 | -- |

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

For Fund compliance purposes, the Fund's sector classifications refer to any one or more of the sector sub-classifications used by one or more

widely recognized market indexes or rating group indexes, and/or as defined by Fund management. This definition may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

BLACKROCK MUNIYIELD PENNSYLVANIA QUALITY FUND

OCTOBER 31, 2010

Schedule of Investments^(concluded)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)

Fair Value Measurements - Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements as contained in its annual report.

The following table summarizes the inputs used as of October 31, 2010 in determining the fair valuation of the Fund's investments:

| Valuation Inputs | Level 1 | Level 2 | Level 3 | Total |
|--------------------------|--------------|---------------|---------|----------------|
| Assets: | | | | |
| Investments in | | | | |
| Securities: | | | | |
| Long-Term | | | | |
| Investments ¹ | | \$276,043,475 | | \$ 276,043,475 |
| Short-Term | | | | |
| Securities | \$ 5,149,376 | | | 5,149,376 |
| Total | \$ 5,149,376 | \$276,043,475 | | \$ 281,192,851 |

¹ See above Schedule of Investments for values in each sector.

OCTOBER 31, 2010

Item 2 Controls and Procedures

2(a) The registrant's principal executive and principal financial officers or persons performing similar functions have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.

2(b) There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3 Exhibits

Certifications Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock MuniYield Pennsylvania Quality Fund

By: /s/ Anne F. Ackerley

Anne F. Ackerley

Chief Executive Officer of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010

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/ Anne F. Ackerley

Anne F. Ackerley

Chief Executive Officer (principal executive officer) of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniYield Pennsylvania Quality Fund

Date: December 22, 2010