

BLACKROCK MUNIYIELD INVESTMENT QUALITY FUND

Form N-Q

June 22, 2016

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 811-07156

Name of Fund: BlackRock MuniYield Investment Quality Fund (MFT)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniYield Investment 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: 07/31/2016

Date of reporting period: 04/30/2016

Item 1 Schedule of Investments

Schedule of Investments April 30, 2016 (Unaudited)

BlackRock MuniYield Investment Quality Fund (MFT)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| Alabama 4.3% | | |
| City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children s Hospital (AGC) | | |
| (a): | | |
| 6.00%, 6/01/19 | \$ 2,985 | \$ 3,443,078 |
| 6.13%, 6/01/19 | 1,500 | 1,735,890 |
| City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project, Series A, | | |
| 5.38%, 12/01/35 | 350 | 390,180 |
| | | 5,569,148 |
| California 21.3% | | |
| California Educational Facilities Authority, RB, University of Southern California, Series A, | | |
| 5.25%, 10/01/38 | 1,960 | 2,165,055 |
| California Health Facilities Financing Authority, RB, Sutter Health, Series B, | | |
| 6.00%, 8/15/42 | 1,150 | 1,381,426 |
| City & County of San Francisco California Airports Commission, Refunding ARB, AMT, Series A: | | |
| 2nd, 5.50%, 5/01/28 | 720 | 878,011 |
| 2nd, 5.25%, 5/01/33 | 560 | 654,091 |
| 5.00%, 5/01/44 | 745 | 843,541 |
| City of San Jose California, Refunding ARB, Series A-1, AMT: | | |
| 5.50%, 3/01/30 | 1,600 | 1,865,872 |
| 6.25%, 3/01/34 | 1,250 | 1,500,863 |
| County of Sacramento California, ARB, Senior Series A (AGC), | | |
| 5.50%, 7/01/41 | 1,400 | 1,532,804 |
| Kern Community College District, GO, Safety, Repair & Improvement, Series C, | | |
| 5.50%, 11/01/33 | 970 | 1,224,024 |
| Los Angeles Community College District California, GO, Election of 2001, Series A (NPFGC), | | |
| 5.00%, 8/01/17 (a) | 1,780 | 1,878,114 |
| Redondo Beach Unified School District, GO, Election of 2008, Series E, | | |
| 5.50%, 8/01/34 | 1,000 | 1,227,220 |
| Riverside County Public Financing Authority, RB, Capital Facilities Project, | | |
| 5.25%, 11/01/40 | 2,000 | 2,408,320 |
| | Par | Value |
| | (000) | Value |
| Municipal Bonds | | |
| California (continued) | | |
| San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), | | |
| 5.38%, 8/01/34 | \$ 1,020 | \$ 1,155,640 |
| State of California, GO, Various Purposes (AGC), | | |
| 5.50%, 11/01/39 | 3,450 | 3,968,052 |
| State of California Public Works Board, LRB, Various Capital Projects, Series I, | | |
| 5.50%, 11/01/31 | 1,000 | 1,242,020 |
| State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, | | |
| 5.25%, 9/01/33 | 490 | 600,431 |
| Township of Washington California Health Care District, GO, Election of 2004, Series B, | | |
| 5.50%, 8/01/40 | 370 | 450,164 |
| University of California, Refunding RB, The Regents of Medical Center, Series J, | | |
| 5.25%, 5/15/38 | 2,235 | 2,689,733 |
| | | 27,665,381 |
| Colorado 2.0% | | |
| City & County of Denver Colorado Airport System, ARB, Series A, AMT: | | |
| 5.50%, 11/15/28 | 500 | 598,325 |
| 5.50%, 11/15/30 | 225 | 267,782 |
| 5.50%, 11/15/31 | 270 | 320,476 |
| Colorado Health Facilities Authority, RB, Hospital, NCMC, Inc. Project, Series B (AGM), | | |
| 6.00%, 5/15/26 | 1,300 | 1,447,407 |
| | | 2,633,990 |
| Florida 12.3% | | |
| | 270 | 328,579 |

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| | | |
|---|-------|-----------|
| City of Jacksonville Florida, Refunding RB, Series A, 5.25%, 10/01/33 | | |
| County of Broward Florida Airport System Revenue, ARB, Series A, AMT, 5.00%, 10/01/45 | 575 | 656,092 |
| County of Hillsborough Florida Aviation Authority, Refunding ARB, Tampa International Airport, Series A, AMT, 5.50%, 10/01/29 | 1,170 | 1,392,440 |
| County of Lee Florida, Refunding ARB, Series A, AMT, 5.38%, 10/01/32 | 1,000 | 1,150,420 |

BLACKROCK MUNIYIELD INVESTMENT QUALITY FUND

APRIL 30, 2016

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Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| Florida (continued) | | |
| County of Lee Florida HFA, RB, S/F Housing, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40 | \$ 125 | \$ 128,076 |
| County of Manatee Florida HFA, RB, S/F Housing, Series A, AMT (Ginnie Mae, Fannie Mae & Freddie Mac), 5.90%, 9/01/40 | 90 | 91,445 |
| County of Miami-Dade Florida, RB, Seaport: | | |
| Series A, 6.00%, 10/01/38 | 1,840 | 2,266,751 |
| Series A, 5.50%, 10/01/42 | 2,125 | 2,503,930 |
| Series B, AMT, 6.00%, 10/01/26 | 590 | 738,503 |
| Series B, AMT, 6.00%, 10/01/27 | 775 | 968,866 |
| Series B, AMT, 6.25%, 10/01/38 | 310 | 388,061 |
| Series B, AMT, 6.00%, 10/01/42 | 410 | 493,710 |
| County of Miami-Dade Florida, Refunding RB: | | |
| Seaport, Series D, AMT, 6.00%, 10/01/26 | 735 | 920,000 |
| Water & Sewer System, Series B, 5.25%, 10/01/29 | 500 | 608,865 |
| County of Miami-Dade Florida Aviation Revenue, Refunding ARB, Series A, AMT, 5.00%, 10/01/31 | 2,165 | 2,488,624 |
| Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32 | 710 | 851,404 |
| | | 15,975,766 |
| Hawaii 1.9% | | |
| State of Hawaii, Department of Transportation, COP, AMT: | | |
| 5.25%, 8/01/25 | 250 | 300,977 |
| 5.25%, 8/01/26 | 810 | 970,364 |
| State of Hawaii, Department of Transportation, RB, Series A, AMT, 5.00%, 7/01/45 | 1,000 | 1,137,800 |
| | | 2,409,141 |
| Illinois 19.1% | | |
| City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: | | |
| Series A, 5.75%, 1/01/39 | 770 | 897,789 |
| Series C, 6.50%, 1/01/41 | 3,680 | 4,462,662 |
| | | |
| | Par (000) | Value |
| Municipal Bonds | | |
| Illinois (continued) | | |
| City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, 5.00%, 1/01/41 | \$ 1,010 | \$ 1,126,948 |
| City of Chicago Illinois Transit Authority, RB: | | |
| Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 12/01/18 (a) | 1,400 | 1,585,570 |
| Sales Tax Receipts, 5.25%, 12/01/36 | 1,000 | 1,100,900 |
| City of Chicago Illinois Transit Authority, Refunding RB, Federal Transit Administration, Section 5309 (AGM), 5.00%, 6/01/28 | 3,000 | 3,243,210 |
| City of Chicago Illinois Wastewater Transmission, RB, 2nd Lien, 5.00%, 1/01/42 | 1,375 | 1,475,086 |
| County of Cook Illinois Community College District No. 508, GO, City College of Chicago: | | |
| 5.50%, 12/01/38 | 1,500 | 1,704,795 |
| 5.25%, 12/01/43 | 2,700 | 2,999,133 |
| Illinois Finance Authority, RB, Carle Foundation, Series A, 6.00%, 8/15/41 | 1,555 | 1,845,319 |
| Railsplitter Tobacco Settlement Authority, RB: | | |
| 5.50%, 6/01/23 | 940 | 1,108,316 |
| 6.00%, 6/01/28 | 270 | 322,653 |
| State of Illinois, GO: | | |

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| | | |
|--|-------|------------|
| 5.25%, 2/01/32 | 1,000 | 1,093,040 |
| 5.50%, 7/01/33 | 1,500 | 1,654,725 |
| 5.50%, 7/01/38 | 280 | 305,948 |
| | | 24,926,094 |
| Indiana 4.0% | | |
| Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Series A, AMT, 5.00%, 7/01/40 | 375 | 409,643 |

Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

| | Par | |
|---|------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| Indiana (continued) | | |
| Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38 | \$ 4,310 | \$ 4,838,363 |
| | | 5,248,006 |
| Louisiana 2.1% | | |
| City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring (AGC): | | |
| Series A-1, 6.00%, 1/01/23 | 375 | 421,871 |
| Series A-2, 6.00%, 1/01/23 | 160 | 179,280 |
| Lake Charles Harbor & Terminal District, RB, Series B, AMT (AGM), 5.50%, 1/01/29 | 1,000 | 1,203,580 |
| Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.50%, 5/15/29 | 805 | 884,124 |
| | | 2,688,855 |
| Massachusetts 1.8% | | |
| Massachusetts DFA, Refunding RB, CareGroup Issue, Series I, 3.25%, 7/01/35 (b) | | |
| | 285 | 283,786 |
| Massachusetts HFA, Refunding RB, Series C, AMT, 5.35%, 12/01/42 | 1,910 | 2,005,328 |
| | | 2,289,114 |
| Michigan 2.7% | | |
| City of Detroit Michigan Water Supply System, RB, 2nd Lien, Series B (AGM), 6.25%, 7/01/36 | | |
| | 1,800 | 2,025,666 |
| Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, Series V, 8.25%, 9/01/18 (a) | 1,265 | 1,484,098 |
| | | 3,509,764 |
| Minnesota 2.6% | | |
| City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC): 6.50%, 11/15/18 (a) | | |
| | 460 | 525,154 |
| | Par | |
| Municipal Bonds | | |
| Minnesota (continued) | | |
| 6.50%, 11/15/38 | \$ 2,540 | \$ 2,861,818 |
| | | 3,386,972 |
| Mississippi 1.5% | | |
| Mississippi Development Bank, RB, Jackson Water & Sewer System Project (AGM), 6.88%, 12/01/40 | | |
| | 1,190 | 1,600,871 |
| Mississippi State University Educational Building Corp., Refunding RB, Mississippi State University Improvement Project, 5.25%, 8/01/38 | 260 | 312,710 |
| | | 1,913,581 |
| Nebraska 0.3% | | |
| Public Power Generation Agency, Refunding RB, 5.00%, 1/01/37 (b) | | |
| | 385 | 452,756 |
| Nevada 4.2% | | |
| County of Clark Nevada, ARB, Las Vegas-McCarran International Airport, Series A (AGM), 5.25%, 7/01/39 | | |
| | 2,375 | 2,670,236 |
| County of Clark Nevada, GO, Limited Tax, 5.00%, 6/01/38 | 1,000 | 1,078,260 |
| County of Clark Nevada Water Reclamation District, GO, Series A, 5.25%, 7/01/34 | 1,500 | 1,691,280 |

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5,439,776

New Jersey 5.8%

New Jersey EDA, RB:

| | | |
|---|-------|-----------|
| Goethals Bridge Replacement Project, Private Activity Bond, AMT (AGM), 5.00%, 1/01/31 | 530 | 597,268 |
| Goethals Bridge Replacement Project, Private Activity Bond, AMT, 5.38%, 1/01/43 | 1,000 | 1,125,870 |
| School Facilities Construction (AGC), 6.00%, 12/15/18 (a) | 980 | 1,112,339 |
| School Facilities Construction (AGC), 6.00%, 12/15/34 | 20 | 22,527 |
| New Jersey Health Care Facilities Financing Authority, RB, Virtua Health, Series A (AGC), 5.50%, 7/01/38 | 1,400 | 1,572,354 |

BLACKROCK MUNIYIELD INVESTMENT QUALITY FUND

APRIL 30, 2016

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Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

| | Par | |
|--|------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System: | | |
| Series A, 5.50%, 6/15/41 | \$ 1,195 | \$ 1,305,071 |
| Series AA, 5.50%, 6/15/39 | 1,600 | 1,770,480 |
| | | 7,505,909 |
| New York 5.3% | | |
| City of New York New York Municipal Water Finance Authority, Refunding RB, Water & Sewer System, Series FF-2, 5.50%, 6/15/40 | | |
| | 1,545 | 1,751,489 |
| City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-4 (AGC), 5.50%, 1/15/29 | | |
| | 2,000 | 2,246,740 |
| Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36 | | |
| | 2,500 | 2,919,575 |
| | | 6,917,804 |
| Ohio 1.4% | | |
| State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1, 5.25%, 2/15/31 | | |
| | 1,500 | 1,812,465 |
| Pennsylvania 2.5% | | |
| Pennsylvania Turnpike Commission, RB: | | |
| Series B, 5.00%, 12/01/45 | 1,000 | 1,154,740 |
| Sub-Series A, 6.00%, 12/01/16 (a) | 2,000 | 2,064,180 |
| | | 3,218,920 |
| South Carolina 8.8% | | |
| County of Charleston South Carolina, RB, Special Source, 5.25%, 12/01/38 | | |
| | 1,470 | 1,780,611 |
| County of Charleston South Carolina Airport District, ARB, Series A, AMT: 5.50%, 7/01/26 | | |
| | 1,810 | 2,190,245 |
| 6.00%, 7/01/38 | 1,155 | 1,373,769 |
| 5.50%, 7/01/41 | 1,000 | 1,152,540 |
| South Carolina Ports Authority, RB, AMT, 5.25%, 7/01/50 | 750 | 853,447 |
| | Par | |
| Municipal Bonds (000) Value | | |
| South Carolina (continued) | | |
| South Carolina State Public Service Authority, Refunding RB: | | |
| Series C, 5.00%, 12/01/46 | \$ 2,535 | \$ 2,897,733 |
| Series E, 5.25%, 12/01/55 | 1,000 | 1,172,610 |
| | | 11,420,955 |
| Texas 20.1% | | |
| Austin Community College District Public Facility Corp., RB, Educational Facilities Project, Round Rock Campus, 5.25%, 8/01/18 (a) | | |
| | 2,250 | 2,475,113 |
| City of Beaumont Texas, GO, Certificates of Obligation, 5.25%, 3/01/37 | | |
| | 930 | 1,109,806 |
| City of Frisco Texas ISD, GO, School Building (AGC), 5.50%, 8/15/41 | | |
| | 1,210 | 1,384,603 |
| City of Houston Texas Combined Utility System Revenue, Refunding RB (AGC): | | |
| 1st Lien, 6.00%, 5/15/19 (a) | 1,945 | 2,245,094 |
| 1st Lien, 6.00%, 11/15/36 | 110 | 127,620 |
| Combined 1st Lien, Series A, 5.38%, 5/15/19 (a) | 950 | 1,078,773 |
| Combined 1st Lien, Series A, 6.00%, 5/15/19 (a) | 2,560 | 2,954,982 |
| Combined 1st Lien, Series A, 6.00%, 11/15/35 | 140 | 162,425 |
| Combined 1st Lien, Series A, 5.38%, 11/15/38 | 50 | 55,943 |
| County of Tarrant Texas Cultural Education Facilities Finance Corp., Refunding RB, Christus Health, Series A (AGC): | | |
| 6.50%, 1/01/19 (a) | 265 | 303,483 |
| 6.50%, 7/01/37 | 835 | 939,016 |
| Dallas Area Rapid Transit, Refunding RB, Series A, 5.00%, 12/01/48 | | |
| | 1,070 | 1,265,746 |
| Dallas-Fort Worth International Airport, ARB, Joint Improvement, Series H, AMT, 5.00%, 11/01/37 | | |
| | 980 | 1,094,591 |
| Dallas-Fort Worth International Airport, Refunding ARB, Joint Revenue, Series E, AMT, 5.50%, 11/01/27 | | |
| | 2,500 | 3,054,975 |
| Lower Colorado River Authority, Refunding RB, 5.50%, 5/15/33 | | |
| | 730 | 882,694 |

Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

| | Par | |
|--|--------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| Texas (continued) | | |
| North Texas Tollway Authority, RB, Special Projects, Series A, 5.50%, 9/01/41 | \$ 2,750 | \$ 3,251,820 |
| North Texas Tollway Authority, Refunding RB, 1st Tier: (AGM), 6.00%, 1/01/43 | 1,000 | 1,182,440 |
| Series K-1 (AGC), 5.75%, 1/01/19 | 1,400 | 1,560,328 |
| Red River Education Financing Corp., RB, Texas Christian University Project, 5.25%, 3/15/38 | 420 | 501,043 |
| Texas Private Activity Bond Surface Transportation Corp., RB, Senior Lien, AMT, Blueridge Transportation Group, 5.00%, 12/31/50 (b) | 540 | 590,965 |
| | | 26,221,460 |
| Virginia 1.2% | | |
| City of Lexington Virginia IDA, RB, Washington & Lee University, 5.00%, 1/01/43 | 380 | 437,532 |
| Virginia Public School Authority, RB, Fluvanna County School Financing, 6.50%, 12/01/18 (a) | 1,000 | 1,147,050 |
| | | 1,584,582 |
| Washington 1.5% | | |
| City of Seattle Washington Municipal Light & Power, Refunding RB, Series A, 5.25%, 2/01/36 | 1,000 | 1,162,730 |
| State of Washington, GO, Various Purposes, Series B, 5.25%, 2/01/36 | 725 | 848,410 |
| | | 2,011,140 |
| Wisconsin 0.6% | | |
| Wisconsin Health & Educational Facilities Authority, Refunding RB, Medical College of Wisconsin, Inc., 4.00%, 12/01/46 (b) | 800 | 839,112 |
| Total Municipal Bonds 127.3% | | 165,640,691 |
| | Par | |
| | (000) | Value |
| Municipal Bonds Transferred to Tender Option Bond Trusts (c) | | |
| Connecticut 1.1% | | |
| Connecticut State Health & Educational Facility Authority, Refunding RB, Trinity Health Credit Group, 5.00%, 12/01/45 | \$ 1,216 | \$ 1,426,907 |
| District of Columbia 0.7% | | |
| District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%, 10/01/18 (a)(d) | 760 | 855,056 |
| Florida 2.1% | | |
| County of Hillsborough Florida Aviation Authority, ARB, Tampa International Airport, Series A, AMT (AGC), 5.50%, 10/01/38 | 2,499 | 2,730,840 |
| Kentucky 0.9% | | |
| Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/27 | 1,002 | 1,113,144 |
| Nevada 7.3% | | |
| County of Clark Nevada Water Reclamation District, GO: Limited Tax, 6.00%, 7/01/18 (a) | 2,010 | 2,237,391 |
| Series B, 5.50%, 7/01/29 | 1,994 | 2,265,591 |
| Las Vegas Valley Water District, GO, Refunding, Series C, 5.00%, 6/01/28 | 4,200 | 4,927,146 |
| | | 9,430,128 |
| New Jersey 2.1% | | |
| New Jersey Housing & Mortgage Finance Agency, RB, S/F Housing, Series CC, 5.25%, 10/01/29 | 1,610 | 1,712,865 |

Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

| | Par | |
|---|---------------|----------------|
| | (000) | Value |
| Municipal Bonds Transferred to Tender Option Bond Trusts (c) | | |
| New Jersey (continued) | | |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series B, 5.25%, 6/15/36 (d) | \$ 1,000 | \$ 1,076,838 |
| | | 2,789,703 |
| New York 12.6% | | |
| City of New York New York Municipal Water Finance Authority, Refunding RB, Water & Sewer System: | | |
| 2nd General Resolution, Series BB, 5.25%, 6/15/44 | 2,999 | 3,570,020 |
| Series FF-2, 5.50%, 6/15/40 | 1,095 | 1,241,175 |
| City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 1/15/39 | 1,000 | 1,106,740 |
| Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2/15/47 (d) | 1,000 | 1,175,622 |
| New York Liberty Development Corp., RB, 1 World Trade Center Port Authority Consolidated Bonds, 5.25%, 12/15/43 | 3,000 | 3,563,806 |
| New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d) | 1,770 | 2,112,697 |
| New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38 | 3,250 | 3,636,880 |
| | | 16,406,940 |
| Texas 2.2% | | |
| City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d) | 2,609 | 2,902,675 |
| | Par | |
| Municipal Bonds Transferred to Tender Option Bond Trusts (c) | | |
| | (000) | Value |
| Utah 0.8% | | |
| City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41 | \$ 1,005 | \$ 1,098,652 |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts 29.8% | | 38,754,045 |
| Total Long-Term Investments (Cost \$182,237,223) 157.1% | | 204,394,736 |
| Short-Term Securities | | |
| | Shares | |
| BlackRock Liquidity Funds, MuniCash, 0.19% (e)(f) | 2,250,685 | 2,250,685 |
| Total Short-Term Securities (Cost \$2,250,685) 1.7% | | 2,250,685 |
| Total Investments (Cost \$184,487,908*) 158.8% | | 206,645,421 |
| Other Assets Less Liabilities 0.1% | | 209,824 |
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (15.5)% | | (20,195,275) |
| VMTP Shares, at Liquidation Value (43.4)% | | (56,500,000) |
| Net Assets Applicable to Common Shares 100.0% | | \$ 130,159,970 |

* As of period end, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

| | |
|-------------------------------|----------------|
| Tax cost | \$ 164,531,779 |
| Gross unrealized appreciation | \$ 22,159,403 |
| Gross unrealized depreciation | (230,086) |
| Net unrealized appreciation | \$ 21,929,317 |

Notes to Schedule of Investments

- (a) U.S. 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 at a premium to par.
- (b) When-issued security.
- (c) Represent bonds transferred to a TOB Trust in exchange of cash and residual certificates received by the Fund. These bonds serve as collateral in a secured borrowing.
- (d) All or a portion of security is subject to a recourse agreement. The aggregate maximum potential amount the Fund could ultimately be required to pay under the agreements, which expire between October 1, 2016 to November 15, 2019, is \$4,627,654.

Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

(e) During the period ended April 30, 2016, investments in issuers considered to be affiliates of the Fund for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| Affiliate | Shares Held at July 31, 2015 | Net Activity | Shares Held at April 30, 2016 | Income |
|-------------------------------------|------------------------------------|-----------------|-------------------------------------|--------|
| BlackRock Liquidity Funds, MuniCash | | 2,250,685 | 2,250,685 | \$ 398 |
| FFI Institutional Tax-Exempt Fund | 2,437,027 | (2,437,027) | | 154 |
| Total | | | 2,250,685 | \$ 552 |

(f) Current yield as of period end.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts

| Contracts Short | Issue | Expiration | Notional Value | Unrealized Appreciation |
|--------------------|----------------------------|------------|-------------------|----------------------------|
| (13) | 5-Year U.S. Treasury Note | June 2016 | \$ 1,571,883 | \$ 5,468 |
| (35) | 10-Year U.S. Treasury Note | June 2016 | \$ 4,552,187 | 23,194 |
| (8) | Long U.S. Treasury Bond | June 2016 | \$ 1,306,500 | 18,327 |
| (1) | Ultra U.S. Treasury Bond | June 2016 | \$ 171,344 | 3,162 |
| Total | | | | \$ 50,151 |

Portfolio Abbreviations

| | |
|--------------|---|
| AGC | Assured Guarantee Corp. |
| AGM | Assured Guaranty Municipal Corp. |
| AMT | Alternative Minimum Tax (subject to) |
| ARB | Airport Revenue Bonds |
| BARB | Building Aid Revenue Bonds |
| COP | Certificates of Participation |
| DFA | Development Finance Agency |
| EDA | Economic Development Authority |
| ERB | Education Revenue Bonds |
| GARB | General Airport Revenue Bonds |
| GO | General Obligation Bonds |
| HFA | Housing Finance Agency |
| IDA | Industrial Development Authority |
| IDB | Industrial Development Board |
| ISD | Independent School District |
| LRB | Lease Revenue Bonds |
| NPFGC | National Public Finance Guarantee Corp. |

Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

RB Revenue Bonds
S/F Single-Family

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Schedule of Investments (continued)

BlackRock MuniYield Investment Quality Fund (MFT)

Fair Value Hierarchy as of Period End

Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a fair value hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets or liabilities that Fund has the ability to access

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 Fund's own assumptions used in determining the fair value of investments and derivative financial instruments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. The significant unobservable inputs used by the Global Valuation Committee in determining the price for Fair Valued Investments are typically categorized as level 3.

Changes in valuation techniques may result in transfers into or out of an assigned level within the hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investments and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. For information about the Fund's policy regarding valuation of investments, refer to the Fund's most recent financial statements as contained in its semi-annual report.

The following tables summarize the Fund's investments and derivative financial instruments categorized in the disclosure hierarchy:

| | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|--------------|----------------|---------|----------------|
| Assets: | | | | |
| Investments: | | | | |
| Long-Term Investments ¹ | | \$ 204,394,736 | | \$ 204,394,736 |
| Short-Term Securities | \$ 2,250,685 | | | 2,250,685 |
| Total Investments | \$ 2,250,685 | \$ 204,394,736 | | \$ 206,645,421 |

| | Level 1 | Level 2 | Level 3 | Total |
|---|-----------|---------|---------|-----------|
| Derivative Financial Instruments ² | | | | |
| Assets: | | | | |
| Interest rate contracts | \$ 50,151 | | | \$ 50,151 |

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

² Derivative financial instruments are futures contracts. Futures contracts are valued at the unrealized appreciation (depreciation) on the instrument.

Schedule of Investments (concluded)

BlackRock MuniYield Investment Quality Fund (MFT)

The Fund may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of period end, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

| | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|-----------|-----------------|---------|-----------------|
| Assets: | | | | |
| Cash pledged for futures contracts | \$ 88,550 | | | \$ 88,550 |
| Liabilities: | | | | |
| Bank overdraft | | \$ (64,883) | | (64,883) |
| TOB Trust Certificates | | (20,184,325) | | (20,184,325) |
| VMTP Shares | | (56,500,000) | | (56,500,000) |
| Total | \$ 88,550 | \$ (76,749,208) | | \$ (76,660,658) |

During the period ended April 30, 2016, there were no transfers between levels.

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 Investment Quality Fund

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock MuniYield Investment Quality Fund

Date: June 22, 2016

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/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock MuniYield Investment Quality Fund

Date: June 22, 2016

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock MuniYield Investment Quality Fund

Date: June 22, 2016