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BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

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 811-08621

Name of Fund: BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniHoldings New Jersey Quality Fund, Inc., 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 MuniHoldings New Jersey Quality Fund, Inc. (MUJ)

(Percentages shown are based on Net Assets)

| | Par | |
|------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey 136.7% | | |
| Corporate 2.7% | | |
| New Jersey EDA, Refunding RB: | | |
| New Jersey American Water Co., Inc. Project, AMT, Series A, 5.70%, 10/01/39 | \$ 7,500 | \$ 8,502,000 |
| New Jersey American Water Co., Inc. Project, AMT, Series B, 5.60%, 11/01/34 | 3,150 | 3,564,446 |
| United Water of New Jersey, Inc., Series B (AMBAC), 4.50%, 11/01/25 | 1,000 | 1,062,440 |
| | | 13,128,886 |
| County/City/Special District/School District 21.4% | | |
| Borough of Edgewater New Jersey Board of Education, GO, Refunding (AGM): | | |
| 4.25%, 3/01/34 | 1,535 | 1,654,300 |
| 4.25%, 3/01/35 | 1,600 | 1,721,904 |
| 4.30%, 3/01/36 | 1,670 | 1,797,488 |
| Borough of Hopatcong New Jersey, GO, Refunding, Sewer (AMBAC), 4.50%, 8/01/33 | 3,440 | 3,469,343 |
| Casino Reinvestment Development Authority, Refunding RB: | | |
| 5.25%, 11/01/39 | 11,130 | 11,531,459 |
| 5.25%, 11/01/44 | 3,755 | 3,869,227 |
| City of Bayonne New Jersey, GO, Refunding, Qualified General Improvement (BAM), | | |
| 5.00%, 7/01/39 | 3,340 | 3,908,969 |
| City of Perth Amboy New Jersey, GO, CAB, Refunding (AGM): | | |
| 5.00%, 7/01/17 (a) | 4,540 | 4,770,223 |
| 5.00%, 7/01/32 | 2,210 | 2,281,670 |
| 5.00%, 7/01/33 | 670 | 691,809 |
| 5.00%, 7/01/35 | 595 | 613,314 |
| 5.00%, 7/01/37 | 705 | 725,297 |
| County of Essex New Jersey Improvement Authority, Refunding RB (NPFGC): | | |
| AMT, 4.75%, 11/01/32 | 1,000 | 1,029,750 |
| Project Consolidation, 5.50%, 10/01/27 | 250 | 332,995 |
| Project Consolidation, 5.50%, 10/01/28 | 4,840 | 6,502,008 |
| County of Hudson New Jersey, COP, Refunding (NPFGC), 6.25%, 12/01/16 | 1,000 | 1,028,950 |
| | Par | |
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| County/City/Special District/School District (continued) | | |
| County of Hudson New Jersey Improvement Authority, RB: | | |
| CAB, Series A-1 (NPFGC), 0.00%, 12/15/32 (b) | \$ 1,000 | \$ 600,570 |
| County Secured, County Services Building Project (AGM), 5.00%, 4/01/17 (a) | 1,000 | 1,040,020 |
| Harrison Parking Facility Project, Series C (AGC), 5.25%, 1/01/39 | 3,000 | 3,305,160 |
| Harrison Parking Facility Project, Series C (AGC), 5.38%, 1/01/44 | 5,000 | 5,486,200 |
| Hudson County Vocational-Technical Schools Project, 5.25%, 5/01/51 (c) | 3,105 | 3,699,421 |
| County of Middlesex New Jersey Improvement Authority, RB, Senior Citizens Housing Project, AMT (AMBAC), 5.50%, 9/01/30 | 500 | 501,880 |
| County of Monmouth New Jersey Improvement Authority, Refunding RB, Governmental Loan (AMBAC): | | |
| 5.00%, 12/01/17 | 5 | 5,015 |
| 5.35%, 12/01/17 | 5 | 5,020 |
| 5.00%, 12/01/18 | 5 | 5,015 |
| 5.38%, 12/01/18 | 5 | 5,020 |
| 5.00%, 12/01/19 | 5 | 5,014 |
| County of Union New Jersey, GO, Refunding: | | |
| 4.00%, 3/01/21 (a) | 225 | 255,668 |
| 4.00%, 3/01/29 | 3,575 | 3,868,222 |
| 4.00%, 3/01/30 | 3,580 | 3,865,648 |
| 4.00%, 3/01/31 | 4,045 | 4,356,182 |
| County of Union New Jersey Utilities Authority, Refunding RB, Series A: | | |
| Resources Recovery Facility, Covanta Union, Inc., AMT, 5.25%, 12/01/31 | 650 | 725,075 |
| Solid Waste System, County Deficiency Agreement, 5.00%, 6/15/41 | 7,570 | 8,506,333 |

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Morristown New Jersey Parking Authority, RB (NPFGC):

| | | |
|----------------|-------|-----------|
| 5.00%, 8/01/30 | 1,830 | 1,919,560 |
| 5.00%, 8/01/33 | 3,000 | 3,145,020 |

BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

APRIL 30, 2016

1

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

| | Par | |
|---------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| County/City/Special District/School District (continued) | | |
| New Jersey Sports & Exposition Authority, Refunding RB (NPFGC) (d): | | |
| 5.50%, 3/01/21 | \$ 7,430 | \$ 8,974,326 |
| 5.50%, 3/01/22 | 4,200 | 5,237,022 |
| Newark New Jersey Housing Authority, Refunding RB, Newark Redevelopment Project (NPFGC), 4.38%, 1/01/37 | 1,720 | 1,732,298 |
| Township of Irvington New Jersey, GO, Refunding Series A (AGM), 5.00%, 7/15/33 | 1,175 | 1,369,968 |
| | | 104,542,363 |
| Education 33.2% | | |
| County of Gloucester New Jersey Improvement Authority, RB, Rowan University General Capital Improvement Projects: | | |
| 5.00%, 7/01/44 | 1,985 | 2,236,698 |
| Series A, 5.00%, 7/01/31 | 1,950 | 2,300,025 |
| Series A, 5.00%, 7/01/32 | 1,775 | 2,084,187 |
| Series A, 5.00%, 7/01/33 | 2,250 | 2,630,025 |
| Series A, 5.00%, 7/01/34 | 1,200 | 1,396,380 |
| New Jersey EDA, LRB, Rutgers The State University of New Jersey, College Avenue Redevelopment Project, 5.00%, 6/15/33 | 3,065 | 3,634,875 |
| New Jersey EDA, RB, Provident Group Rowan Properties LLC, Series A: 5.00%, 1/01/35 | 2,000 | 2,205,320 |
| 5.00%, 1/01/48 | 2,000 | 2,165,040 |
| New Jersey Educational Facilities Authority, RB: Higher Educational Capital Improvement Fund, Series A, 5.00%, 9/01/33 | 6,370 | 6,859,726 |
| Montclair State University, Series A (AMBAC), 5.00%, 7/01/16 (a) | 2,880 | 2,902,147 |
| Richard Stockton College, Series F (NPFGC), 5.00%, 7/01/31 | 2,625 | 2,643,165 |
| New Jersey Educational Facilities Authority, Refunding RB: College of New Jersey, Series D (AGM), 5.00%, 7/01/18 (a) | 3,285 | 3,582,227 |
| | Par | |
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Education (continued) | | |
| New Jersey Educational Facilities Authority, Refunding RB | | |
| College of New Jersey, Series D (AGM), 5.00%, 7/01/35 | \$ 10,260 | \$ 11,093,317 |
| Montclair State University Issue, Series B, 5.00%, 7/01/34 (c) | 1,075 | 1,294,408 |
| Montclair State University, Series A, 5.00%, 7/01/39 | 15,555 | 17,964,936 |
| Montclair State University, Series A, 5.00%, 7/01/44 | 3,540 | 4,063,424 |
| Montclair State University, Series J (NPFGC), 4.25%, 7/01/30 | 6,540 | 6,582,379 |
| New Jersey Institute of Technology, Series H, 5.00%, 7/01/31 | 4,000 | 4,513,040 |
| Ramapo College, Series I (AMBAC), 4.25%, 7/01/31 | 2,500 | 2,546,675 |
| Rowan University, Series B (AGC), 5.00%, 7/01/26 | 2,575 | 2,787,618 |
| Seton Hall University, Series D, 5.00%, 7/01/38 | 500 | 572,760 |
| Seton Hall University, Series D, 5.00%, 7/01/43 | 600 | 681,456 |
| Stevens Institute of Technology, Series A, 5.00%, 7/01/27 | 2,800 | 2,900,268 |
| Stevens Institute of Technology, Series A, 5.00%, 7/01/34 | 2,400 | 2,495,616 |
| William Paterson University, Series C (AGC), 5.00%, 7/01/28 | 250 | 270,110 |
| William Paterson University, Series C (AGC), 4.75%, 7/01/34 | 5,115 | 5,484,815 |
| New Jersey Higher Education Student Assistance Authority, RB, Senior Student Loan, Series 1A, AMT: | | |
| 4.00%, 12/01/28 | 1,500 | 1,582,290 |
| 4.50%, 12/01/28 | 4,080 | 4,434,838 |
| 4.00%, 12/01/29 | 6,715 | 7,041,351 |
| 4.50%, 12/01/29 | 5,110 | 5,559,731 |
| 4.63%, 12/01/30 | 4,980 | 5,418,987 |
| 4.00%, 12/01/31 | 1,625 | 1,693,786 |
| 4.25%, 12/01/32 | 2,050 | 2,153,033 |
| 4.13%, 12/01/35 | 1,000 | 1,036,170 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

| | Par | |
|---------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Education (continued) | | |
| New Jersey Higher Education Student Assistance Authority, RB, Senior Student Loan, Series 1A, AMT (continued): | | |
| 4.50%, 12/01/36 | \$ 1,805 | \$ 1,910,755 |
| New Jersey Higher Education Student Assistance Authority, Refunding RB, Series 1, AMT: | | |
| 5.38%, 12/01/24 | 1,365 | 1,553,957 |
| 5.50%, 12/01/26 | 1,635 | 1,847,730 |
| New Jersey Institute of Technology, RB, Series A: | | |
| 5.00%, 7/01/42 | 6,945 | 8,009,391 |
| 5.00%, 7/01/45 | 7,500 | 8,533,500 |
| Rutgers The State University of New Jersey, Refunding RB, Series L: | | |
| 5.00%, 5/01/30 | 1,565 | 1,868,234 |
| 5.00%, 5/01/43 | 10,000 | 11,548,800 |
| | | 162,083,190 |
| Health 16.3% | | |
| County of Camden New Jersey Improvement Authority, Refunding RB, Cooper Healthcare System, Series A, 5.00%, 2/15/33 | 2,000 | 2,277,580 |
| New Jersey Health Care Facilities Financing Authority, RB: | | |
| Meridian Health System Obligated Group, Series I (AGC), 5.00%, 7/01/38 | 1,405 | 1,501,875 |
| Meridian Health System Obligated Group, Series II (AGC), 5.00%, 7/01/38 | 6,950 | 7,460,060 |
| Meridian Health System Obligated Group, Series V (AGC), 5.00%, 7/01/38 | 4,685 | 5,028,832 |
| Robert Wood Johnson University Hospital, Series A, 5.50%, 7/01/43 | 7,105 | 8,383,900 |
| Virtua Health, Series A (AGC), 5.50%, 7/01/38 | 4,035 | 4,531,749 |
| New Jersey Health Care Facilities Financing Authority, Refunding RB: | | |
| AHS Hospital Corp., 5.50%, 7/01/31 | 4,055 | 4,807,040 |
| AHS Hospital Corp., 6.00%, 7/01/41 | 4,180 | 5,024,903 |
| | Par | |
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Health (continued) | | |
| New Jersey Health Care Facilities Financing Authority, Refunding RB (continued): | | |
| Catholic Health East Issue, 5.00%, 11/15/33 | \$ 1,925 | \$ 2,190,592 |
| Hackensack University Medical Center (AGC), 5.13%, 1/01/27 | 1,500 | 1,594,830 |
| Hackensack University Medical Center (AGM), 4.63%, 1/01/30 | 7,795 | 8,378,144 |
| Meridian Health System Obligated Group, 5.00%, 7/01/25 | 1,000 | 1,188,710 |
| Meridian Health System Obligated Group, 5.00%, 7/01/26 | 3,720 | 4,390,976 |
| Princeton Healthcare System, 5.00%, 7/01/34 | 1,330 | 1,578,338 |
| Princeton Healthcare System, 5.00%, 7/01/39 | 1,825 | 2,137,641 |
| St. Barnabas Health Care System, Series A, 5.00%, 7/01/24 | 3,640 | 4,197,175 |
| St. Barnabas Health Care System, Series A, 5.63%, 7/01/32 | 4,450 | 5,241,166 |
| St. Barnabas Health Care System, Series A, 5.63%, 7/01/37 | 4,860 | 5,648,729 |
| Virtua Health, 5.00%, 7/01/28 | 3,000 | 3,544,650 |
| Virtua Health, 5.00%, 7/01/29 | 715 | 840,154 |
| | | 79,947,044 |
| Housing 6.7% | | |
| New Jersey Housing & Mortgage Finance Agency, RB: | | |
| Capital Fund Program, Series A (AGM), 5.00%, 5/01/27 | 6,770 | 7,100,850 |
| M/F Housing, Series A, 4.55%, 11/01/43 | 4,710 | 4,946,065 |
| M/F Housing, Series A, AMT (NPFGC), 4.85%, 11/01/39 | 1,335 | 1,339,552 |
| S/F Housing, Series AA, 6.50%, 10/01/38 | 310 | 320,583 |
| S/F Housing, Series B, 4.50%, 10/01/30 | 9,455 | 10,214,993 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

| | Par | |
|------------------------------------------------------------------------------------------|------------|--------------|
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Housing (continued) | | |
| New Jersey Housing & Mortgage Finance Agency, Refunding RB, AMT: | | |
| M/F Housing, Series 2, 4.60%, 11/01/38 | \$ 3,470 | \$ 3,684,134 |
| M/F Housing, Series 2, 4.75%, 11/01/46 | 4,220 | 4,456,616 |
| S/F Housing, Series T, 4.70%, 10/01/37 | 655 | 661,995 |
| | | 32,724,788 |
| State 25.3% | | |
| Garden State Preservation Trust, RB, CAB, Series B (AGM) (b): | | |
| 0.00%, 11/01/23 | 15,725 | 13,364,835 |
| 0.00%, 11/01/25 | 10,000 | 7,968,400 |
| Garden State Preservation Trust, Refunding RB, Series C (AGM): | | |
| 5.25%, 11/01/20 | 5,000 | 5,814,600 |
| 5.25%, 11/01/21 | 7,705 | 9,138,130 |
| New Jersey EDA, RB: | | |
| CAB, Motor Vehicle Surcharge, Series A (NPFGC), 0.00%, 7/01/21 (b) | | |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/24 | 1,785 | 2,091,056 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/25 | 5,000 | 5,896,150 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/26 | 7,500 | 8,872,275 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/33 | 18,105 | 18,291,844 |
| School Facilities Construction (AGC), 6.00%, 12/15/18 (a) | 3,960 | 4,494,758 |
| School Facilities Construction (AGC), 6.00%, 12/15/34 | 40 | 45,054 |
| School Facilities Construction, Series KK, 5.00%, 3/01/38 | 325 | 340,795 |
| School Facilities Construction, Series U, 5.00%, 9/01/17 (a) | 2,810 | 2,971,856 |
| School Facilities Construction, Series U (AMBAC), 5.00%, 9/01/17 (a) | 1,070 | 1,131,632 |
| School Facilities Construction, Series Y, 5.00%, 9/01/18 (a) | 1,000 | 1,097,770 |
| | Par | |
| | (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| State (continued) | | |
| New Jersey EDA, RB (continued): | | |
| Series WW, 5.25%, 6/15/33 | \$ 380 | \$ 419,064 |
| Series WW, 5.00%, 6/15/34 | 5,500 | 5,895,120 |
| Series WW, 5.00%, 6/15/36 | 3,115 | 3,316,759 |
| Series WW, 5.25%, 6/15/40 | 8,375 | 9,161,831 |
| New Jersey EDA, Refunding RB: | | |
| Cigarette Tax, 5.00%, 6/15/24 | 5,000 | 5,530,850 |
| Cigarette Tax, 5.00%, 6/15/26 | 1,250 | 1,356,800 |
| Cigarette Tax, 5.00%, 6/15/28 | 2,430 | 2,618,762 |
| Cigarette Tax, 5.00%, 6/15/29 | 3,195 | 3,430,120 |
| School Facilities Construction, Series N-1 (NPFGC), 5.50%, 9/01/27 | 1,000 | 1,207,340 |
| School Facilities Construction, Series NN, 5.00%, 3/01/29 | 5,000 | 5,387,300 |
| State of New Jersey, COP, Equipment Lease Purchase, Series A, 5.25%, 6/15/27 | 1,580 | 1,729,863 |
| | | 123,643,353 |
| Transportation 26.0% | | |
| Delaware River Port Authority, RB: | | |
| 5.00%, 1/01/29 | 2,000 | 2,404,240 |
| 5.00%, 1/01/37 | 8,830 | 10,348,672 |
| Series D, 5.05%, 1/01/35 | 1,430 | 1,612,325 |
| Series D (AGM), 5.00%, 1/01/40 | 5,200 | 5,857,748 |
| New Brunswick Parking Authority, Refunding RB, Series A (BAM), 5.00%, 9/01/39 (c) | 1,520 | 1,803,495 |
| New Jersey EDA, RB, Private Activity Bond, The Goethals Bridge Replacement Project, AMT: | | |
| 5.13%, 1/01/34 | 2,290 | 2,589,349 |
| 5.38%, 1/01/43 | 7,730 | 8,702,975 |
| New Jersey State Turnpike Authority, RB: | | |
| Growth & Income Securities, Series B (AMBAC), 5.15%, 1/01/17 (a) | 8,620 | 8,884,462 |

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| | | |
|----------------------------------------------------|-------|-----------|
| Series E, 5.00%, 1/01/45 | 8,000 | 9,239,920 |
| New Jersey State Turnpike Authority, Refunding RB: | | |
| Series A (AGM), 5.25%, 1/01/29 | 4,000 | 5,280,280 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

| | Par (000) | Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Transportation (continued) | | |
| New Jersey State Turnpike Authority, Refunding RB (continued): | | |
| Series A (AGM), 5.25%, 1/01/30 | \$ 4,000 | \$ 5,321,920 |
| Series A (BHAC), 5.25%, 1/01/29 | 500 | 663,270 |
| New Jersey Transportation Trust Fund Authority, RB: | | |
| CAB, Transportation System, Series A, 0.00%, 12/15/35 (b) | 6,000 | 2,306,760 |
| CAB, Transportation System, Series C (AMBAC), 0.00%, 12/15/36 (b) | 7,210 | 2,955,740 |
| CAB, Transportation System, Series C (AGM), 0.00%, 12/15/32 (b) | 8,800 | 4,481,312 |
| CAB, Transportation System, Series C (AMBAC), 0.00%, 12/15/35 (b) | 4,160 | 1,801,363 |
| Transportation Program, Series AA, 5.00%, 6/15/33 | 3,000 | 3,188,280 |
| Transportation Program, Series AA, 5.25%, 6/15/33 | 5,690 | 6,219,227 |
| Transportation Program, Series AA, 5.25%, 6/15/34 | 1,305 | 1,435,996 |
| Transportation Program, Series AA, 5.00%, 6/15/38 | 2,340 | 2,489,198 |
| Transportation System, Series A, 6.00%, 6/15/35 | 6,365 | 7,288,816 |
| Transportation System, Series A (AGC), 5.63%, 12/15/28 | 2,780 | 3,121,245 |
| Transportation System, Series A (NPFGC), 5.75%, 6/15/24 | 1,205 | 1,454,507 |
| Transportation System, Series B, 5.25%, 6/15/36 | 2,500 | 2,691,475 |
| Transportation System, Series D, 5.00%, 6/15/32 | 3,300 | 3,581,259 |
| Port Authority of New York & New Jersey, ARB: | | |
| Consolidated, 93rd Series, 6.13%, 6/01/94 | 1,000 | 1,272,370 |
| Special Project, JFK International Air Terminal LLC Project, Series 6, AMT (NPFGC), 5.75%, 12/01/25 | 3,000 | 3,077,820 |
| Special Project, JFK International Air Terminal LLC Project, Series 8, 6.00%, 12/01/42 | 4,000 | 4,694,680 |
| | Par (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Transportation (continued) | | |
| Port Authority of New York & New Jersey, Refunding ARB, AMT: | | |
| 178th Series, 5.00%, 12/01/33 | \$ 4,005 | \$ 4,645,079 |
| Consolidated, 152nd Series, 5.75%, 11/01/30 | 7,175 | 7,833,019 |
| | | 127,246,802 |
| Utilities 5.1% | | |
| County of Essex New Jersey Utilities Authority, Refunding RB (AGC), 4.13%, 4/01/22 | | |
| | 2,000 | 2,154,920 |
| North Hudson New Jersey Sewerage Authority, Refunding RB, Series A (NPFGC), 5.13%, 8/01/20 (d) | | |
| | 6,045 | 7,083,531 |
| Rahway Valley Sewerage Authority, RB, CAB, Series A (NPFGC) (b): | | |
| 0.00%, 9/01/26 | 4,100 | 3,108,169 |
| 0.00%, 9/01/28 | 6,600 | 4,619,010 |
| 0.00%, 9/01/29 | 9,650 | 6,478,238 |
| 0.00%, 9/01/33 | 2,350 | 1,378,557 |
| | | 24,822,425 |
| Total Municipal Bonds in New Jersey | | 668,138,851 |
| Puerto Rico 1.3% | | |
| Health 1.3% | | |
| Puerto Rico Industrial Tourist Educational Medical & Environmental Control Facilities Financing Authority, RB, Hospital De La Concepcion, Series A: | | |
| 6.50%, 11/15/20 | 1,750 | 1,784,405 |
| 6.13%, 11/15/30 | 4,220 | 4,458,599 |
| Total Municipal Bonds in Puerto Rico | | 6,243,004 |
| Total Municipal Bonds 138.0% | | 674,381,855 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

| Municipal Bonds Transferred to | Par | |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| Tender Option Bond Trusts (e) | (000) | Value |
| New Jersey 20.2% | | |
| County/City/Special District/School District 4.0% | | |
| County of Union New Jersey Utilities Authority, Refunding LRB, Resource Recovery Facility, Covanta Union, Inc., Series A, AMT, 5.25%, 12/01/31 | \$ 17,300 | \$ 19,298,150 |
| Education 1.1% | | |
| Rutgers The State University of New Jersey, RB, Series F, 5.00%, 5/01/19 (a) | 4,998 | 5,608,084 |
| State 4.7% | | |
| Garden State Preservation Trust, RB, Election of 2005, Series A (AGM), 5.75%, 11/01/28 | 12,460 | 15,981,445 |
| New Jersey EDA, Refunding RB, Series NN, School Facilities Construction, 5.00%, 3/01/29 (f) | 6,698 | 7,217,005 |
| | | 23,198,450 |
| Transportation 10.4% | | |
| New Jersey State Turnpike Authority, RB, Series A, 5.00%, 1/01/38 (f) | 9,300 | 10,765,866 |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series B, 5.25%, 6/15/36 (f) | 2,661 | 2,864,390 |
| Port Authority of New York & New Jersey, ARB, Consolidated, 163rd Series, AMT, 5.00%, 7/15/39 | 15,545 | 17,688,327 |
| Port Authority of New York & New Jersey, RB, Consolidated, 169th Series, AMT, 5.00%, 10/15/41 | 10,000 | 11,069,400 |
| Municipal Bonds Transferred to | Par | |
| Tender Option Bond Trusts (e) | (000) | Value |
| New Jersey (continued) | | |
| Transportation (continued) | | |
| Port Authority of New York & New Jersey, Refunding RB, Consolidated, 152nd Series, AMT, 5.25%, 11/01/35 | \$ 7,827 | \$ 8,424,493 |
| | | 50,812,476 |
| Total Municipal Bonds Transferred to | | |
| Tender Option Bond Trusts 20.2% | | 98,917,160 |
| Total Long-Term Investments | | |
| (Cost \$704,876,854) 158.2% | | 773,299,015 |
| Short-Term Securities | Shares | |
| BIF New Jersey Municipal Money Fund, 0.00% (g)(h) | 2,791,279 | 2,791,279 |
| Total Short-Term Securities | | |
| (Cost \$2,791,279) 0.6% | | 2,791,279 |
| Total Investments (Cost \$707,668,133*) 158.8% | | 776,090,294 |
| Other Assets Less Liabilities 0.5% | | 2,565,129 |
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (10.8)% | | (52,787,515) |
| VRDP Shares, at Liquidation Value (48.5)% | | (237,100,000) |
| Net Assets Applicable to Common Shares 100.0% | | \$ 488,767,908 |

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

| | |
|-------------------------------|----------------|
| Tax cost | \$ 655,734,390 |
| Gross unrealized appreciation | \$ 69,228,406 |
| Gross unrealized depreciation | (1,621,208) |
| Net unrealized appreciation | \$ 67,607,198 |

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) Zero-coupon bond.
- (c) When-issued security.
- (d) Security is collateralized by municipal bonds or U.S. Treasury obligations.
- (e) 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.
- (f) 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 June 15, 2019 to September 1, 2020, is \$13,907,845.

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

(g) During the period ended April 30, 2016, investments in issuers considered to be an affiliate 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 |
|-------------------------------------|------------------------------------|-----------------|-------------------------------------|--------|
| BIF New Jersey Municipal Money Fund | 11,186,598 | (8,395,319) | 2,791,279 | \$ 608 |

(h) Current yield as of period end.

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 the investment advisor. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts

| Contracts | Issue | Expiration | Notional Value | Unrealized Appreciation |
|--------------|----------------------------|------------|-------------------|----------------------------|
| Short | | | | |
| (14) | 5-Year U.S. Treasury Note | June 2016 | \$ 1,692,797 | \$ 4,876 |
| (168) | 10-Year U.S. Treasury Note | June 2016 | \$ 21,850,500 | 96,562 |
| (46) | Long U.S. Treasury Bond | June 2016 | \$ 7,512,375 | 101,929 |
| (4) | Ultra U.S. Treasury Bond | June 2016 | \$ 685,375 | 10,400 |
| Total | | | | \$ 213,767 |

Portfolio Abbreviations

| | |
|--------------|-----------------------------------------|
| AGC | Assured Guarantee Corp. |
| AGM | Assured Guaranty Municipal Corp. |
| AMBAC | American Municipal Bond Assurance Corp. |
| AMT | Alternative Minimum Tax (subject to) |
| ARB | Airport Revenue Bonds |
| BAM | Build America Mutual Assurance Co. |
| BHAC | Berkshire Hathaway Assurance Corp. |
| CAB | Capital Appreciation Bonds |
| COP | Certificates of Participation |
| EDA | Economic Development Authority |
| GO | General Obligation Bonds |
| LRB | Lease Revenue Bonds |
| M/F | Multi-Family |
| NPFGC | National Public Finance Guarantee Corp. |
| RB | Revenue Bonds |
| S/F | Single-Family |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)**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 | | \$ 773,299,015 | | \$ 773,299,015 |
| Short-Term Securities | \$ 2,791,279 | | | 2,791,279 |
| Total Investments | \$ 2,791,279 | \$ 773,299,015 | | \$ 776,090,294 |
| Derivative Financial Instruments² | | | | |
| Assets: | | | | |
| Interest rate contracts | \$ 213,767 | | | \$ 213,767 |

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

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

Schedule of Investments (concluded)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.
(MUJ)

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 | \$ 407,000 | | | \$ 407,000 |
| Liabilities: | | | | |
| Bank overdraft | | \$ (257,311) | | (257,311) |
| TOB Trust Certificates | | (52,748,706) | | (52,748,706) |
| VRDP Shares | | (237,100,000) | | (237,100,000) |
| Total | \$ 407,000 | \$ (290,106,017) | | \$ (289,699,017) |

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 MuniHoldings New Jersey Quality Fund, Inc.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock MuniHoldings New Jersey Quality Fund, Inc.

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 MuniHoldings New Jersey Quality Fund, Inc.

Date: June 22, 2016

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock MuniHoldings New Jersey Quality Fund, Inc.

Date: June 22, 2016