

BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

Form N-Q

June 24, 2013

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: 07/31/2013

Date of reporting period: 04/30/2013

Item 1 Schedule of Investments

Schedule of Investments April 30, 2013 (Unaudited)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey 127.7% | | |
| Corporate 2.2% | | |
| New Jersey EDA, RB, Waste Management of New Jersey, Mandatory Put Bonds, Series A, AMT, 5.30%, 6/01/15(a) | \$ 2,500 | \$ 2,622,650 |
| New Jersey EDA, Refunding RB, New Jersey American Water Co., Inc. Project, AMT: Series A, 5.70%, 10/01/39 | 2,500 | 2,791,150 |
| Series B, 5.60%, 11/01/34 | 2,150 | 2,442,550 |
| | | 7,856,350 |
| County/City/Special District/School District 15.5% | | |
| Borough of Hopatcong New Jersey, GO, Refunding, Sewer (AMBAC), 4.50%, 8/01/33 | 2,690 | 2,832,839 |
| City of Perth Amboy New Jersey, Refunding, GO, CAB (AGM): 5.00%, 7/01/32 | 4,605 | 4,965,111 |
| 5.00%, 7/01/33 | 1,395 | 1,501,257 |
| 5.00%, 7/01/37 | 1,470 | 1,562,404 |
| County of Union New Jersey, GO, Refunding: 4.00%, 3/01/29 | 2,590 | 2,812,947 |
| 4.00%, 3/01/30 | 2,590 | 2,799,660 |
| 4.00%, 3/01/31 | 2,925 | 3,151,132 |
| Edgewater Borough Board of Education, GO, Refunding (AGM): 4.25%, 3/01/34 | 1,235 | 1,354,536 |
| 4.25%, 3/01/35 | 1,300 | 1,424,969 |
| 4.30%, 3/01/36 | 1,370 | 1,505,055 |
| Essex County Improvement Authority, RB, County Correctional Facility Project, Series A (NPFGC), 5.00%, 10/01/13(b) | 4,400 | 4,488,484 |
| Essex County Improvement Authority, Refunding RB, Project Consolidation (NPFGC): 5.50%, 10/01/27 | 250 | 329,798 |
| 5.50%, 10/01/28 | 4,840 | 6,409,806 |
| Hudson County Improvement Authority, RB: County Secured, County Services Building Project (AGM), 5.00%, 4/01/27 | 750 | 833,677 |
| Harrison Parking Facility Project, Series C (AGC), 5.25%, 1/01/39 | 2,000 | 2,218,620 |
| Harrison Parking Facility Project, Series C (AGC), 5.38%, 1/01/44 | 3,600 | 3,994,992 |
| Middlesex County Improvement Authority, RB, Senior Citizens Housing Project, AMT (AMBAC), 5.50%, 9/01/30 | 500 | 501,755 |
| Monmouth County Improvement Authority, RB, Governmental Loan (AMBAC): 5.35%, 12/01/17 | 5 | 5,019 |
| 5.38%, 12/01/18 | 5 | 5,019 |
| Morristown Parking Authority, RB (NPFGC): 5.00%, 8/01/30 | 1,830 | 1,969,720 |
| 5.00%, 8/01/33 | 3,000 | 3,214,200 |
| New Jersey State Transit Corp., COP, Subordinate, Federal Transit Administration Grants, Series A (AGM), 5.00%, 9/15/21 | 2,000 | 2,196,380 |
| Newark Housing Authority, Refunding RB, Newark Redevelopment Project (NPFGC), 4.38%, 1/01/37 | 620 | 625,090 |
| Union County Improvement Authority, RB, Family Court Building Project, 4.00%, 5/01/37 | 3,575 | 3,675,815 |
| | | 54,378,285 |
| Education 21.2% | | |
| New Jersey EDA, RB, International Center For Public Health Project, University of Medicine and Dentistry (AMBAC), | | |

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| | | |
|--|-------|------------|
| 6.00%, 6/01/32 | 5,000 | 5,008,550 |
| New Jersey Educational Facilities Authority, RB: | | |
| Montclair State University, Series A (AMBAC), 5.00%, 7/01/21 | 1,200 | 1,352,832 |
| Montclair State University, Series A (AMBAC), 5.00%, 7/01/22 | 2,880 | 3,239,107 |
| Richard Stockton College, Series F (NPFGC), 5.00%, 7/01/31 | 2,625 | 2,872,826 |
| Rowan University, Series C (NPFGC), 5.00%, 7/01/14(b) | 3,260 | 3,436,757 |
| Rowan University, Series C (NPFGC), 5.13%, 7/01/14(b) | 3,615 | 3,816,247 |
| New Jersey Educational Facilities Authority, Refunding RB: | | |
| College of New Jersey, Series D (AGM), 5.00%, 7/01/35 | 9,740 | 10,737,181 |
| Montclair State University, Series J (NPFGC), 4.25%, 7/01/30 | 3,775 | 3,895,725 |
| New Jersey Institute of Technology, Series H, 5.00%, 7/01/31 | 3,000 | 3,369,930 |
| Ramapo College, Series B, 5.00%, 7/01/37 | 845 | 959,252 |
| Ramapo College, Series I (AMBAC), 4.25%, 7/01/31 | 1,250 | 1,297,838 |
| Ramapo College, Series I (AMBAC), 4.25%, 7/01/36 | 900 | 929,754 |

BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

APRIL 30, 2013

1

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Education (concluded) | | |
| New Jersey Educational Facilities Authority, Refunding RB (concluded): | | |
| Stevens Institute of Technology, Series A, 5.00%, 7/01/27 | \$ 2,800 | \$ 2,992,892 |
| Stevens Institute of Technology, Series A, 5.00%, 7/01/34 | 900 | 949,761 |
| William Paterson University, Series C (AGC), 5.00%, 7/01/28 | 250 | 283,095 |
| William Paterson University, Series C (AGC), 4.75%, 7/01/34 | 4,000 | 4,308,880 |
| New Jersey Higher Education Student Assistance Authority, RB, Senior Student Loan, Series 1A, AMT: | | |
| 4.50%, 12/01/28 | 3,380 | 3,562,959 |
| 4.50%, 12/01/29 | 4,150 | 4,330,567 |
| 4.63%, 12/01/30 | 4,080 | 4,277,962 |
| 4.00%, 12/01/23 | 500 | 531,720 |
| New Jersey Institute of Technology, RB, Series A, | | |
| 5.00%, 7/01/42 | 5,045 | 5,774,406 |
| University of Medicine & Dentistry of New Jersey, COP (NPFGC), | | |
| 5.00%, 6/15/29 | 2,000 | 2,034,720 |
| University of Medicine & Dentistry of New Jersey, RB, Series A (AMBAC), | | |
| 5.50%, 12/01/27 | 4,740 | 4,756,685 |
| | | 74,719,646 |
| Health 15.4% | | |
| New Jersey Health Care Facilities Financing Authority, RB: | | |
| Greystone Park Psychiatric Hospital (AMBAC), 5.00%, 9/15/15(b) | 10,775 | 11,930,080 |
| Meridian Health, Series I (AGC), 5.00%, 7/01/38 | 755 | 814,018 |
| Meridian Health, Series II (AGC), 5.00%, 7/01/38 | 6,260 | 6,749,344 |
| Meridian Health, Series V (AGC), 5.00%, 7/01/38 | 3,870 | 4,172,518 |
| Virtua Health (AGC), 5.50%, 7/01/38 | 3,035 | 3,372,583 |
| New Jersey Health Care Facilities Financing Authority, Refunding RB: | | |
| AHS Hospital Corp., 6.00%, 7/01/41 | 3,080 | 3,787,568 |
| AHS Hospital Corp., Series A (AMBAC), 6.00%, 7/01/13(c) | 4,000 | 4,037,960 |
| Barnabas Health, Series A, 5.00%, 7/01/24 | 1,820 | 2,101,172 |
| Barnabas Health, Series A, 4.00%, 7/01/26 | 1,740 | 1,859,816 |
| Barnabas Health, Series A, 5.63%, 7/01/32 | 1,100 | 1,248,060 |
| Barnabas Health, Series A, 5.63%, 7/01/37 | 3,060 | 3,451,160 |
| Hackensack University Medical (AGC), 5.13%, 1/01/27 | 1,500 | 1,648,155 |
| Hackensack University Medical (AGM), 4.63%, 1/01/30 | 5,480 | 5,890,891 |
| Kennedy Health System, 5.00%, 7/01/42 | 360 | 396,976 |
| Meridian Health System Obligation, 5.00%, 7/01/25 | 700 | 815,136 |
| Meridian Health System Obligation, 5.00%, 7/01/26 | 1,590 | 1,836,323 |
| | | 54,111,760 |
| Housing 8.7% | | |
| New Jersey State Housing & Mortgage Finance Agency, RB: | | |
| Capital Fund Program, Series A (AGM), 4.70%, 11/01/25 | 9,245 | 9,606,387 |
| M/F Housing, Series A, 4.55%, 11/01/43 | 3,575 | 3,723,398 |
| M/F Housing, Series A, AMT (NPFGC), 4.85%, 11/01/39 | 935 | 947,613 |
| Series AA, 6.50%, 10/01/38 | 1,435 | 1,490,793 |
| Series B, 4.50%, 10/01/30 | 7,005 | 7,634,539 |
| New Jersey State Housing & Mortgage Finance Agency, Refunding RB, AMT: | | |
| M/F Housing, Series 2, 4.60%, 11/01/38 | 3,420 | 3,454,098 |
| M/F Housing, Series 2, 4.75%, 11/01/46 | 3,015 | 3,038,969 |

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| | | |
|--|-----|------------|
| S/F Housing, Series T, 4.70%, 10/01/37 | 660 | 679,787 |
| | | 30,575,584 |

State 33.7%

| | | |
|--|--------|-----------|
| Garden State Preservation Trust, RB (AGM): | | |
| CAB, Series B, 2.60%, 11/01/23(d) | 9,000 | 6,864,840 |
| CAB, Series B, 2.81%, 11/01/25(d) | 10,000 | 7,050,400 |
| Election of 2005, Series A, 5.80%, 11/01/15(b) | 1,960 | 2,219,798 |
| Election of 2005, Series A, 5.80%, 11/01/15(b) | 2,730 | 3,091,862 |
| Garden State Preservation Trust, Refunding RB, Series C (AGM): | | |
| 5.25%, 11/01/20 | 5,000 | 6,377,250 |
| 5.25%, 11/01/21 | 7,705 | 9,941,684 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|-------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| State (continued) | | |
| New Jersey EDA, RB: | | |
| Cigarette Tax (Radian), 5.50%, 6/15/14(b) | \$ 585 | \$ 619,223 |
| Cigarette Tax (Radian), 5.75%, 6/15/14(b) | 3,180 | 3,374,966 |
| Liberty State Park Project, Series C (AGM), 5.00%, 3/01/22 | 2,670 | 2,867,206 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/24 | 1,785 | 2,208,688 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/25 | 4,000 | 4,995,280 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/26 | 7,500 | 9,352,275 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/33 | 11,105 | 11,640,261 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.00%, 7/01/34 | 2,000 | 2,084,140 |
| School Facilities Construction (AGC), 6.00%, 12/15/18(b) | 945 | 1,214,486 |
| School Facilities Construction (AGC), 6.00%, 12/15/34 | 1,855 | 2,209,138 |
| School Facilities Construction, Series KK, 5.00%, 3/01/29 | 1,500 | 1,743,975 |
| School Facilities Construction, Series L (AGM), 5.00%, 3/01/15(b) | 9,000 | 9,753,120 |
| School Facilities Construction, Series O, 5.25%, 3/01/15(b) | 1,420 | 1,548,056 |
| School Facilities Construction, Series Y, 5.00%, 9/01/33 | 3,000 | 3,365,430 |
| School Facilities, Series U, 5.00%, 9/01/37 | 5,000 | 5,453,000 |
| School Facilities, Series U (AMBAC), 5.00%, 9/01/37 | 2,000 | 2,181,200 |
| New Jersey EDA, Refunding RB: | | |
| Cigarette Tax, 5.00%, 6/15/26 | 895 | 1,025,124 |
| Cigarette Tax, 5.00%, 6/15/28 | 1,520 | 1,722,114 |
| Cigarette Tax, 5.00%, 6/15/29 | 2,000 | 2,247,500 |
| School Facilities Construction, Series N-1 (NPFGC), 5.50%, 9/01/27 | 1,000 | 1,309,580 |
| New Jersey Sports & Exposition Authority, Refunding RB (NPFGC): | | |
| 5.50%, 3/01/21 | 5,890 | 7,124,956 |
| 5.50%, 3/01/22 | 3,150 | 3,847,567 |
| State of New Jersey, COP, Equipment Lease Purchase, Series A, 5.25%, 6/15/27 | 1,080 | 1,222,808 |
| | | 118,655,927 |
| Tobacco 1.2% | | |
| Tobacco Settlement Financing Corp. New Jersey, RB, 7.00%, 6/01/13(b) | | |
| | 4,000 | 4,023,280 |
| Transportation 23.7% | | |
| Delaware River Port Authority, RB, Series D (AGM), 5.00%, 1/01/40 | | |
| | 3,700 | 4,129,940 |
| Delaware River Port Authority, Refunding RB, Port District Project: | | |
| 5.00%, 1/01/26 | 1,745 | 1,998,130 |
| 5.00%, 1/01/27 | 1,300 | 1,478,165 |
| New Jersey State Turnpike Authority, RB, Growth & Income Securities, Series B (AMBAC), 0.00%, 1/01/15(e) | | |
| | 7,615 | 7,330,275 |
| New Jersey State Turnpike Authority, Refunding RB: | | |
| Series A (AGM), 5.25%, 1/01/26 | 4,900 | 6,208,839 |
| Series A (AGM), 5.25%, 1/01/29 | 2,000 | 2,573,760 |
| Series A (AGM), 5.25%, 1/01/30 | 4,000 | 5,179,760 |
| Series A (BHAC), 5.25%, 1/01/29 | 500 | 643,440 |
| Series C (NPFGC), 6.50%, 1/01/16 | 605 | 696,500 |
| Series C (NPFGC), 6.50%, 1/01/16(c) | 305 | 353,818 |
| Series C (NPFGC), 6.50%, 1/01/16(c) | 255 | 296,037 |
| Series C (NPFGC), 6.50%, 1/01/16(c) | 2,715 | 2,922,996 |

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| | | |
|--|--------|------------|
| New Jersey Transportation Trust Fund Authority, RB, Transportation System: | | |
| CAB, Series A, 4.56%, 12/15/35(d) | 6,000 | 2,163,300 |
| CAB, Series C (AGM), 4.44%, 12/15/32(d) | 4,050 | 1,710,680 |
| CAB, Series C (AMBAC), 4.63%, 12/15/35(d) | 1,400 | 497,014 |
| CAB, Series C (AMBAC), 4.59%, 12/15/36(d) | 7,210 | 2,467,839 |
| CAB, Series C (BHAC), 3.82%, 12/15/31(d) | 5,000 | 2,471,100 |
| Series A, 6.00%, 6/15/35 | 4,365 | 5,331,018 |
| Series A (AGC), 5.63%, 12/15/28 | 2,000 | 2,386,460 |
| Series A (NPFGC), 5.75%, 6/15/24 | 1,205 | 1,576,044 |
| Series B, 5.50%, 6/15/31 | 1,425 | 1,690,292 |
| New Jersey Transportation Trust Fund Authority, Refunding RB, Transportation System, Series A (AGM), 5.25%, 12/15/20 | 10,750 | 13,353,005 |

BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

APRIL 30, 2013

3

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (concluded) | | |
| Transportation (concluded) | | |
| Port Authority of New York & New Jersey, RB, JFK International Air Terminal, Special Project: | | |
| Series 6, AMT (NPFGC), 6.25%, 12/01/15 | \$ 1,500 | \$ 1,628,895 |
| Series 6, AMT (NPFGC), 5.75%, 12/01/25 | 3,000 | 3,011,520 |
| Series 8, 6.00%, 12/01/42 | 2,500 | 2,927,150 |
| Port Authority of New York & New Jersey, Refunding RB, Consolidated, 152nd, AMT, 5.75%, 11/01/30 | | |
| | 5,175 | 6,021,371 |
| South Jersey Transportation Authority, Refunding RB, Series A: | | |
| 5.00%, 11/01/28 | 1,025 | 1,186,069 |
| 5.00%, 11/01/29 | 1,025 | 1,181,507 |
| | | 83,414,924 |
| Utilities 6.1% | | |
| Essex County Utilities Authority, Refunding RB (AGC), 4.13%, 4/01/22 | | |
| | 2,000 | 2,166,060 |
| North Hudson Sewerage Authority, Refunding RB, Series A (NPFGC), 5.13%, 8/01/20(c) | | |
| | 4,335 | 5,463,357 |
| Rahway Valley Sewerage Authority, RB, CAB, Series A (NPFGC)(d): | | |
| 3.92%, 9/01/28 | 6,600 | 3,638,976 |
| 3.99%, 9/01/29 | 6,900 | 3,618,774 |
| Union County Utilities Authority, Refunding RB, Series A: | | |
| Covanta Union, AMT, 5.25%, 12/01/31 | 450 | 502,645 |
| New Jersey Solid Waste System, County Deficiency Agreement, 5.00%, 6/15/41 | 5,415 | 6,207,377 |
| | | 21,597,189 |
| Total Municipal Bonds in New Jersey | | 449,332,945 |
| Guam 1.1% | | |
| State 1.0% | | |
| Government of Guam Business Privilege Tax Revenue, RB, Series A, 5.13%, 1/01/42 | | |
| | 2,500 | 2,789,525 |
| Territory of Guam, RB, Series B-1, 5.00%, 1/01/37 | | |
| | 700 | 775,691 |
| | | 3,565,216 |
| Utilities 0.1% | | |
| Guam Power Authority, Refunding RB, Series A, 5.00%, 10/01/34 | | |
| | 325 | 359,697 |
| Total Municipal Bonds in Guam | | 3,924,913 |
| Puerto Rico 7.3% | | |
| Health 0.5% | | |
| 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 | 1,758,873 |
| State 5.2% | | |

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| | | |
|--|-------|-------------|
| Commonwealth of Puerto Rico, GO, Refunding, Public Improvement, Series C, 6.00%, 7/01/39 | 1,730 | 1,788,284 |
| Puerto Rico Commonwealth Infrastructure Financing Authority, RB, CAB, Series A (AMBAC), 6.50%, 7/01/37(d) | 4,000 | 851,960 |
| Puerto Rico Sales Tax Financing Corp., RB: First Sub-Series A, 5.50%, 8/01/42 | 1,300 | 1,367,925 |
| First Sub-Series B, 6.00%, 8/01/42 | 2,500 | 2,736,400 |
| Puerto Rico Sales Tax Financing Corp., Refunding RB: CAB, Series A (NPFGC), 5.64%, 8/01/41(d) | 9,500 | 1,974,765 |
| CAB, Series A (NPFGC), 5.65%, 8/01/42(d) | 5,500 | 1,076,515 |
| First Sub-Series A-1, 5.25%, 8/01/43 | 2,130 | 2,224,018 |
| First Sub-Series C (AGM), 5.13%, 8/01/42 | 6,120 | 6,478,265 |
| | | 18,498,132 |
| Transportation 1.2% | | |
| Puerto Rico Highway & Transportation Authority, Refunding RB, Series CC (AGC), 5.50%, 7/01/31 | 3,750 | 4,147,612 |
| Utilities 0.4% | | |
| Puerto Rico Electric Power Authority, Refunding RB, Series VV (NPFGC), 5.25%, 7/01/26 | 1,325 | 1,374,767 |
| Total Municipal Bonds in Puerto Rico | | 25,779,384 |
| Total Municipal Bonds 136.1% | | 479,037,242 |
| Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts(f) | | |
| New Jersey 20.4% | | |
| Education 0.3% | | |
| Rutgers State University of New Jersey, Refunding RB, Series F, 5.00%, 5/01/39 | 990 | 1,139,097 |

Schedule of Investments (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|---------------|--------------------|
| Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (f) | | |
| New Jersey (continued) | | |
| Housing 1.5% | | |
| New Jersey State Housing & Mortgage Finance Agency, RB, Capital Fund Program, Series A (AGM), 5.00%, 5/01/27 | \$ 4,790 | \$ 5,254,870 |
| State 5.1% | | |
| Garden State Preservation Trust, RB, Election of 2005, Series A (AGM), 5.75%, 11/01/28 | 9,160 | 12,364,076 |
| New Jersey EDA, Refunding RB, 5.00%, 3/01/29(g) | 4,782 | 5,568,984 |
| | | 17,933,060 |
| Transportation 9.6% | | |
| New Jersey State Turnpike Authority, RB, Series A, 5.00%, 1/01/38(g) | 5,200 | 5,828,732 |
| New Jersey Transportation Trust Fund Authority, RB, Series B, 5.25%, 6/15/36(g) | 1,900 | 2,170,826 |
| Port Authority of New York & New Jersey, RB, Consolidated, AMT: 169th Series, 5.00%, 10/15/41 | 5,500 | 6,177,380 |
| 163rd Series, 5.00%, 7/15/39 | 11,456 | 12,899,411 |
| Port Authority of New York & New Jersey, Refunding RB, 152nd, AMT, 5.25%, 11/01/35 | 5,998 | 6,605,870 |
| | | 33,682,219 |
| Utilities 3.9% | | |
| Union County Utilities Authority, Refunding LRB, Covanta Union, Series A, AMT, 5.25%, 12/01/31 | 12,370 | 13,817,166 |
| Total Municipal Bonds in New Jersey | | 71,826,412 |
| Puerto Rico 0.7% | | |
| State 0.7% | | |
| Puerto Rico Sales Tax Financing Corp., Refunding RB, Series C, 5.25%, 8/01/40 | 2,270 | 2,459,366 |
| Total Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts 21.1% | | 74,285,778 |
| Total Long-Term Investments | | 553,323,020 |
| (Cost \$503,953,395) 157.2% | | |
| | Shares | |
| BIF New Jersey Municipal Money Fund, 0.00%(h)(i) | 3,639,579 | 3,639,579 |
| Total Short-Term Securities | | 3,639,579 |
| (Cost \$3,639,579) 1.0% | | |
| Total Investments (Cost \$507,592,974*) 158.2% | | 556,962,599 |
| Other Assets Less Liabilities 1.8% | | 6,010,371 |

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| | | |
|--|----------------|-----------------------|
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable | (10.9)% | (38,254,783) |
| VRDP Shares, at Liquidation Value | (49.1)% | (172,700,000) |
| Net Assets Applicable to Common Shares | 100.0% | \$ 352,018,187 |

* As of April 30, 2013, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

| | |
|-------------------------------|----------------|
| Tax cost | \$ 469,632,032 |
| Gross unrealized appreciation | \$ 50,076,193 |
| Gross unrealized depreciation | (976,302) |
| Net unrealized appreciation | \$ 49,099,891 |

Notes to Schedule of Investments

- (a) Variable rate security. Rate shown is as of report date.
- (b) 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 at a premium to par.
- (c) Security is collateralized by Municipal or US Treasury obligations.
- (d) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (e) Represents a step-up bond that pays an initial coupon rate for the first period and then a higher coupon rate for the following periods. Rate shown is as of report date.
- (f) Securities represent bonds transferred to a TOB in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (g) All or a portion of security is subject to a recourse agreement, which may require the Fund to pay the liquidity provider in the event there is a shortfall between the TOB trust certificates and proceeds received from the sale of the security contributed to the TOB trust. In the case of a shortfall, the aggregate maximum potential amount the Fund could ultimately be required to pay under the agreements, which expire from 6/15/19 to 9/01/20, is \$8,819,672.

Schedule of Investments (continued)

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

- (h) Investments in issuers considered to be an affiliate of the Fund during the period ended April 30, 2013, for purposes of Section 2(a)(3) of the 1940 Act, were as follows:

| Affiliate | Shares Held at | Net Activity | Shares Held at | Income |
|-------------------------------------|----------------|--------------|----------------|--------|
| | July 31, 2012 | | April 30, 2013 | |
| BIF New Jersey Municipal Money Fund | 4,620,110 | (980,531) | 3,639,579 | \$ 4 |

- (i) Represents the current yield as of report date.

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. |
| AGM | Assured Guaranty Municipal Corp. |
| AMBAC | American Municipal Bond Assurance Corp. |
| AMT | Alternative Minimum Tax (subject to) |
| 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. |
| Radian | Radian Financial Guaranty |
| RB | Revenue Bonds |
| S/F | Single-Family |

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 ratings group indexes, and/or as defined by Fund management. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

Financial futures contracts as of April 30, 2013 were as follows:

| Contracts Sold | Issue | Exchange | Expiration | Notional Value | Unrealized Depreciation |
|----------------|--------------------------|------------------------|------------|----------------|-------------------------|
| (170) | 10-Year US Treasury Note | Chicago Board of Trade | June 2013 | \$ 22,671,094 | \$ (337,566) |

Schedule of Investments (concluded)**BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)**

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

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities that the 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 the 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 level in the fair value hierarchy within which the fair value measurement falls in its entirety is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value disclosure 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 investment and derivative financial instrument 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 and derivative financial instruments and other significant accounting policies, please 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 as of April 30, 2013:

| | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|----------------|----------------|----------------|----------------|
| Assets: | | | | |
| Investments: | | | | |
| Long-Term Investments ¹ | | \$ 553,323,020 | | \$ 553,323,020 |
| Short-Term Securities | \$ 3,639,579 | | | 3,639,579 |
| Total | \$ 3,639,579 | \$ 553,323,020 | | \$ 556,962,599 |

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

| | Level 1 | Level 2 | Level 3 | Total |
|---|----------------|----------------|----------------|--------------|
| Derivative Financial Instruments² | | | | |
| Liabilities: | | | | |

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| | | |
|-------------------------|--------------|--------------|
| Interest rate contracts | \$ (337,566) | \$ (337,566) |
|-------------------------|--------------|--------------|

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation/depreciation on the instrument.

Certain of the Fund's assets and liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of April 30, 2013, such assets and liabilities are categorized within the disclosure hierarchy as follows:

| | Level 1 | Level 2 | Level 3 | Total |
|--|------------|------------------|---------|------------------|
| Assets: | | | | |
| Cash pledged for financial futures contracts | \$ 224,000 | | | \$ 224,000 |
| Liabilities: | | | | |
| TOB trust certificates | | \$ (38,230,676) | | (38,230,676) |
| VDRP shares | | (172,700,000) | | (172,700,000) |
| Total | \$ 224,000 | \$ (210,930,676) | | \$ (210,706,676) |

There were no transfers between levels during the period ended April 30, 2013.

BLACKROCK MUNIHOLDINGS NEW JERSEY QUALITY FUND, INC.

APRIL 30, 2013

7

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 24, 2013

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 24, 2013

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of BlackRock MuniHoldings New Jersey Quality Fund, Inc.
Date: June 24, 2013