

BLACKROCK MUNIHOLDINGS NEW YORK QUALITY FUND, INC.

Form N-Q

July 28, 2011

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 811-08217

Name of Fund: BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock
MuniHoldings New York 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: 08/31/2011

Date of reporting period: 05/31/2011

Item 1 Schedule of Investments

BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments May 31, 2011 (Unaudited)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Municipal Bonds | | |
| New York — 118.8% | | |
| Corporate — 5.4% | | |
| New York City Industrial Development Agency, Refunding RB, Terminal One Group Association Project, AMT, 5.50%, 1/01/24 (a) | \$ 1,500 | \$ 1,537,710 |
| New York Liberty Development Corp., RB, Goldman Sachs Headquarters, 5.25%, 10/01/35 | 4,000 | 3,983,360 |
| New York State Energy Research & Development Authority, RB, Lilco Project, Series A (NPFGC), 5.15%, 3/01/16 | 1,000 | 1,015,110 |
| New York State Energy Research & Development Authority, Refunding RB, Brooklyn Union Gas/Keyspan, Series A, AMT (FGIC), 4.70%, 2/01/24 | 3,340 | 3,382,218 |
| Suffolk County Industrial Development Agency New York, RB, Keyspan, Port Jefferson, AMT, 5.25%, 6/01/27 | 4,355 | 4,271,906 |
| Suffolk County Industrial Development Agency New York, Refunding RB, Ogden Martin System Huntington, AMT (AMBAC): | | |
| 6.15%, 10/01/11 | 5,000 | 5,089,950 |
| 6.25%, 10/01/12 | 3,530 | 3,767,428 |
| | | 23,047,682 |
| County/City/Special District/School District — 32.3% | | |
| Amherst Development Corp., RB, University at Buffalo Foundation Faculty-Student Housing Corp., Series A (AGM), 4.63%, 10/01/40 | 4,975 | 4,477,649 |
| Erie County Industrial Development Agency, RB, City School District of | | |

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| | | |
|----------------------------------------------------------------------------------------------------------------|--------|------------|
| Buffalo Project, Series A, 5.25%, 5/01/31 (b) | 1,000 | 1,045,580 |
| Hudson Yards Infrastructure Corp., RB, Series A: 5.00%, 2/15/47 | 2,150 | 1,920,380 |
| (FGIC), 5.00%, 2/15/47 | 6,250 | 5,582,500 |
| (NPFGC), 4.50%, 2/15/47 | 14,505 | 12,084,115 |
| New York City Industrial Development Agency, PILOT, RB: CAB, Yankee Stadium (AGC), 6.54%, 3/01/39 (c) | 1,380 | 254,900 |

| | Par (000) | Value |
|-------------------------------------------------------------|--------------|------------|
| Municipal Bonds | | |
| New York (continued) | | |
| County/City/Special District/School District (continued) | | |
| New York City Industrial Development Agency, PILOT, RB : | | |
| Queens Baseball Stadium (AGC), 6.38%, 1/01/39 | \$ 800 | \$ 817,520 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/39 | 4,000 | 3,355,440 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/46 | 4,200 | 3,424,554 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/31 | 3,500 | 3,041,605 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/36 | 12,740 | 10,823,140 |
| Yankee Stadium (FGIC), 5.00%, 3/01/46 | 9,500 | 8,381,280 |
| Yankee Stadium (NPFGC), 5.00%, 3/01/36 | 3,450 | 3,165,651 |
| New York City Transitional Finance Authority, RB: | | |
| Fiscal 2008, Series S-1, 4.50%, 1/15/38 | 1,510 | 1,416,365 |
| Fiscal 2009, Series S-1 (AGC), 5.50%, 7/15/38 | 4,000 | 4,179,240 |
| Fiscal 2009, Series S-4 (AGC), | | |

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| | | |
|--------------------------------------|--------|------------|
| 5.50%, 1/15/39 | 1,250 | 1,310,113 |
| Future Tax Secured, Series C (FGIC), | | |
| 5.00%, 2/01/33 | 10,000 | 10,041,400 |
| Future Tax Secured, Series E | | |
| (NPFGC), 5.25%, 2/01/22 (d) | 2,455 | 2,644,821 |
| Future Tax Secured, Series E | | |
| (NPFGC), 5.25%, 2/01/22 | 45 | 47,384 |
| Series B (NPFGC), 5.50%, 2/01/13 | 110 | 111,566 |
| Series S-2 (AGM), 5.00%, 1/15/37 | 3,750 | 3,790,050 |
| Series S-2 Series S-2 (NPFGC) | | |
| (FGIC), 4.25%, 1/15/34 | 4,830 | 4,441,813 |
| New York City Transitional Finance | | |
| Authority, Refunding RB, Series A | | |
| (FGIC), 5.00%, 11/15/26 | 1,000 | 1,033,670 |
| New York Convention Center | | |
| Development Corp., RB, Hotel Unit | | |
| Fee Secured (AMBAC): | | |
| 5.00%, 11/15/30 | 2,100 | 2,108,274 |
| 5.00%, 11/15/35 | 19,150 | 18,700,549 |
| 5.00%, 11/15/44 | 4,955 | 4,715,673 |

BLACKROCK MUNIHOLDINGS NEW YORK QUALITY FUND, INC.

MAY 31, 2011

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BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Municipal Bonds | | |
| New York (continued) | | |
| New York State Dormitory Authority, Refunding RB, School Districts Financing Program, Series A (AGM), 5.00%, 10/01/35 | \$ 5,000 | \$ 5,054,700 |
| Oneida-Herkimer Solid Waste Management Authority New York, Refunding RB (AGM), 5.50%, 4/01/13 | 1,800 | 1,945,206 |
| Sales Tax Asset Receivable Corp., RB, Series A (AMBAC), 5.00%, 10/15/32 | 14,175 | 14,504,994 |
| Syracuse Industrial Development Agency New York, RB, Carousel Center Project, Series A, AMT (Syncora), 5.00%, 1/01/36 | 5,350 | 3,932,090 |
| | | 138,352,222 |
| Education — 15.1% | | |
| City of Troy New York, Refunding RB, Rensselaer Polytechnic, Series A, 5.13%, 9/01/40 | 4,050 | 3,998,281 |
| Madison County Industrial Development Agency New York, RB, Colgate University Project, Series A (AMBAC), 5.00%, 7/01/30 | 4,000 | 4,099,160 |
| New York City Industrial Development Agency, Refunding RB, Nightingale- Bamford School (AMBAC), 5.25%, 1/15/17 | 1,200 | 1,266,924 |
| New York City Transitional Finance Authority, RB, Fiscal 2009, Series S-4 (AGC), 5.50%, 1/15/33 | 3,000 | 3,177,720 |
| New York State Dormitory Authority, LRB, State University Dormitory Facilities, Series A, 5.00%, 7/01/40 | 1,500 | 1,524,030 |
| New York State Dormitory Authority, RB: | | |

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|------------------------------------------------------------------|-------|-----------|
| Convent Sacred Heart (AGM), 5.75%, 11/01/40 | 1,770 | 1,843,207 |
| Cornell University, Series A, 5.00%, 7/01/40 | 1,000 | 1,039,930 |
| Fordham University, Series A, 5.00%, 7/01/28 | 175 | 180,448 |
| Fordham University, Series A, 5.50%, 7/01/36 | 1,375 | 1,426,659 |
| Mount Sinai School of Medicine, 5.13%, 7/01/39 | 1,000 | 990,400 |
| Mount Sinai School of Medicine at NYU (NPFGC), 5.00%, 7/01/35 | 5,100 | 5,015,595 |
| New York University, Series 1 (AMBAC), 5.50%, 7/01/40 | 3,500 | 3,803,380 |
| New York University, Series A, 5.00%, 7/01/38 | 2,000 | 2,026,100 |
| New York University, Series A (AMBAC), 5.00%, 7/01/37 | 3,000 | 3,031,200 |

| Municipal Bonds | Par (000) | Value |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| New York (continued) | | |
| Education (concluded) | | |
| New York State Dormitory Authority, RB: | | |
| Rockefeller University, Series A1, 5.00%, 7/01/32 (a) | \$ 1,790 | \$ 1,804,750 |
| Siena College, 5.13%, 7/01/39 | 1,345 | 1,374,846 |
| The New School (AGM), 5.50%, 7/01/43 | 5,475 | 5,648,448 |
| Schenectady County Industrial Development Agency, Refunding RB, Union College Project, Series A (AMBAC), 5.63%, 7/01/31 (d) | 3,000 | 3,073,260 |
| Tompkins County Development Corp., RB, Ithaca College Project (AGM): | | |
| 5.25%, 7/01/36 | 700 | 709,436 |
| 5.50%, 7/01/33 | 500 | 523,480 |
| Trust for Cultural Resources, RB, Carnegie Hall Series A: | | |

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|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| 4.75%, 12/01/39 | 3,150 | 3,026,425 |
| 5.00%, 12/01/39 | 1,850 | 1,847,206 |
| Trust for Cultural Resources, Refunding RB, American Museum of Natural History, Series A (NPFGC), 5.00%, 7/01/36 | 6,300 | 6,348,006 |
| Westchester County Industrial Development Agency New York, RB, Purchase College Foundation Housing, Series A (AMBAC), 5.75%, 12/01/31 | 7,000 | 7,011,270 |
| | | 64,790,161 |
| Health — 8.5% | | |
| Dutchess County Industrial Development Agency, RB, Vassar Brothers Medical Center (AGC), 5.50%, 4/01/34 | 500 | 504,680 |
| Monroe County Industrial Development Corp., RB, Unity Hospital of Rochester Project (FHA), 5.50%, 8/15/40 | 3,925 | 4,086,749 |
| New York City Health & Hospital Corp., Refunding RB, Health System, Series A, 5.00%, 2/15/30 | 1,800 | 1,789,056 |
| New York City Industrial Development Agency, RB, Royal Charter, New York Presbyterian (AGM), 5.75%, 12/15/29 | 7,965 | 8,270,776 |
| New York State Dormitory Authority, MRB, Montefiore Hospital (NPFGC), 5.00%, 8/01/33 | 1,000 | 1,000,930 |
| New York State Dormitory Authority, RB: Healthcare, Series A, 5.00%, 3/15/38 | 2,250 | 2,302,290 |
| Hudson Valley Hospital (BHAC), 5.00%, 8/15/36 | 5,500 | 5,555,110 |
| New York & Presbyterian Hospital (AGM), 5.25%, 2/15/31 | 1,500 | 1,538,535 |

BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|-------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Municipal Bonds | | |
| New York (continued) | | |
| Health (concluded) | | |
| New York State Dormitory Authority, RB : | | |
| New York & Presbyterian Hospital (AGM), 5.00%, 8/15/36 | \$ 4,000 | \$ 4,010,280 |
| North Shore-Long Island Jewish Health System, Series A, 5.50%, 5/01/37 | 1,825 | 1,827,227 |
| NYU Hospital Center, Series A, 5.75%, 7/01/31 | 2,680 | 2,729,178 |
| NYU Hospital Center, Series A, 6.00%, 7/01/40 | 1,800 | 1,833,948 |
| New York State Dormitory Authority, Refunding RB, St. Luke's Roosevelt Hospital (FHA), 4.90%, 8/15/31 | 1,000 | 961,470 |
| | | 36,410,229 |
| Housing — 5.3% | | |
| New York City Housing Development Corp., RB, AMT: | | |
| Series A-1-A, 5.00%, 11/01/30 | 750 | 703,005 |
| Series A-1-A, 5.45%, 11/01/46 | 1,335 | 1,210,324 |
| Series C, 5.00%, 11/01/26 | 1,250 | 1,248,613 |
| Series C, 5.05%, 11/01/36 | 2,000 | 1,849,180 |
| Series H-1, 4.70%, 11/01/40 | 1,000 | 884,250 |
| Series H-2-A, 5.20%, 11/01/35 | 835 | 780,282 |
| Series H-2-A, 5.35%, 5/01/41 | 600 | 546,828 |
| New York Mortgage Agency, RB, Series 145, AMT, 5.13%, 10/01/37 | 1,000 | 961,520 |
| New York Mortgage Agency, Refunding RB: Homeowner Mortgage, Series 67 | | |

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| AMT (NPFGC), 5.70%, 10/01/17 | 2,140 | 2,142,675 |
| Homeowner Mortgage, Series 83 (NPFGC), 5.55%, 10/01/27 | 2,100 | 2,100,945 |
| Series 133, AMT, 4.95%, 10/01/21 | 685 | 694,789 |
| Series 143, AMT, 4.85%, 10/01/27 | 1,085 | 1,024,066 |
| Series 143, AMT, 4.90%, 10/01/37 | 950 | 879,824 |
| Series 143 AMT (NPFGC), 4.85%, 10/01/27 | 2,000 | 1,934,140 |
| Series 82 AMT (NPFGC), 5.65%, 4/01/30 | 815 | 815,163 |
| Series 97, AMT, 5.50%, 4/01/31 | 805 | 804,984 |
| New York State HFA, RB, St. Philip's Housing, Series A, AMT (Fannie Mae), 4.65%, 11/15/38 | 1,000 | 904,230 |
| Yonkers Economic Development Corp., Refunding RB, Riverview II (Freddie Mac), 4.50%, 5/01/25 | 1,500 | 1,478,595 |
| | Par | Value |
| Municipal Bonds | (000) | |
| New York (continued) | | |
| Housing (concluded) | | |
| Yonkers Industrial Development Agency New York, RB, Monastery Manor Associates LP Project, AMT (SONYMA), 5.25%, 4/01/37 | \$ 2,000 | \$ 1,881,480 22,844,893 |
| State — 10.5% | | |
| New York State Dormitory Authority, ERB, Series C, 5.00%, 12/15/31 | 2,320 | 2,413,148 |
| New York State Dormitory Authority, RB: Master BOCES Program Lease (AGC), 5.00%, 8/15/28 | 250 | 261,448 |
| Mental Health Facilities, Series B, 5.25%, 2/15/14 (d) | 1,550 | 1,732,667 |
| Mental Health Services Facilities | | |

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| | | |
|-------------------------------------------------------------------------------------------------------------------------------|--------|------------|
| Improvement, Series B (AGM), 5.00%, 2/15/33 | 4,500 | 4,659,255 |
| Mental Health Services Facilities, Series C AMT (AGM), 5.40%, 2/15/33 | 5,650 | 5,642,316 |
| School Districts Financing Program, Series A (AGM), 5.00%, 10/01/35 | 450 | 454,347 |
| School Districts Financing Program, Series C (AGM), 5.00%, 10/01/37 | 2,500 | 2,517,375 |
| School Districts Financing Program, Series D (NPFGC), 5.00%, 10/01/30 | 1,240 | 1,246,262 |
| School Districts Financing Program, Series E (NPFGC), 5.75%, 10/01/30 | 6,900 | 7,187,109 |
| New York State Dormitory Authority, Refunding RB, Secured Hospital, North General Hospital (Syncora), 5.75%, 2/15/17 | 2,000 | 2,062,860 |
| New York State Thruway Authority, RB: Second General, Series B, 5.00%, 4/01/27 | 1,000 | 1,062,880 |
| Series A (AMBAC), 5.00%, 4/01/26 | 8,700 | 9,172,323 |
| New York State Urban Development Corp., RB (NPFGC): Personal Income Tax, Series C- 1, 5.00%, 3/15/13 (d) | 3,000 | 3,243,240 |
| State Personal Income Tax, State Facilities, Series A-1, 5.00%, 3/15/29 | 2,000 | 2,053,760 |
| State of New York, GO, Series A, 4.75%, 2/15/37 | 1,000 | 1,013,140 |
| | | 44,722,130 |
| Tobacco — 4.5% | | |
| Tobacco Settlement Financing Corp. New York, RB, Asset-Backed, Series A- 1 (AMBAC): 5.25%, 6/01/20 | 5,000 | 5,286,700 |
| 5.25%, 6/01/21 | 13,275 | 13,969,548 |
| | | 19,256,248 |

BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|-----------------------------------------------------------------------------------------------------|--------------|--------------|
| Municipal Bonds | | |
| New York (continued) | | |
| Transportation — 26.5% | | |
| Hudson Yards Infrastructure Corp., RB: | | |
| (AGC), 5.00%, 2/15/47 | \$ 7,370 | \$ 6,890,582 |
| Series A (NPFGC), 5.00%, 2/15/47 | 305 | 285,160 |
| Series A (AGM), 5.00%, 2/15/47 | 10,050 | 9,405,292 |
| Metropolitan Transportation Authority, RB, Series 2008c, 6.50%, 11/15/28 | 6,015 | 6,921,641 |
| Metropolitan Transportation Authority, Refunding RB: | | |
| Series A, 5.13%, 1/01/29 | 4,000 | 4,020,120 |
| Series A (FGIC), 5.25%, 11/15/31 | 2,500 | 2,509,300 |
| Series B, 5.00%, 11/15/34 | 2,500 | 2,544,800 |
| Series C (AGM), 4.75%, 7/01/16 (d) | 2,535 | 2,658,049 |
| Transportation, Series F (NPFGC), 5.25%, 11/15/12 (d) | 6,300 | 6,749,253 |
| New York State Thruway Authority, RB: | | |
| Series F (AMBAC), 5.00%, 1/01/30 | 5,000 | 5,075,100 |
| Series G (AGM), 4.75%, 1/01/29 | 1,250 | 1,283,538 |
| Series G (AGM), 4.75%, 1/01/30 | 1,030 | 1,037,941 |
| Series G (AGM), 5.00%, 1/01/32 | 5,225 | 5,303,741 |
| Niagara Falls Bridge Commission, Refunding RB, Bridge System, Series A (AGC), 4.00%, 10/01/19 | 1,600 | 1,701,168 |
| Port Authority of New York & New Jersey, RB: | | |
| Consolidated, 160th Series, 4.13%, 9/15/32 | 2,310 | 2,192,005 |
| Consolidated, 161st Series, 4.50%, 10/15/37 | 1,000 | 964,040 |
| Consolidated, 163rd Series, 5.00%, 7/15/35 | 2,500 | 2,569,925 |
| Special Project, JFK International Air Terminal, Series 6 AMT (NPFGC), | | |

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| 6.25%, 12/01/11 Special Project, JFK International Air Terminal, Series 6 AMT (NPFGC), | 3,000 | 3,041,280 |
| 5.75%, 12/01/22 Special Project, JFK International Air Terminal, Series 6 AMT (NPFGC), | 26,725 | 25,923,517 |
| 5.90%, 12/01/17 Special Project, JFK International Air Terminal, Series 6 AMT (NPFGC), | 4,000 | 4,000,320 |
| 6.25%, 12/01/15 Triborough Bridge & Tunnel Authority, RB: | 7,830 | 8,216,880 |
| Sub-Series A (NPFGC), 5.25%, 11/15/30 Subordinate Bonds (AMBAC), | 6,000 | 6,135,600 |
| 5.00%, 11/15/28 Triborough Bridge & Tunnel Authority, Refunding RB, Series C, 5.00%, 11/15/38 | 2,465 | 2,515,113 |
| | 1,385 | 1,415,221 |
| | | 113,359,586 |
| Utilities — 10.7% | | |
| Long Island Power Authority, RB, Series A (AMBAC), 5.00%, 9/01/29 | 3,000 | 3,028,410 |
| | | |
| | Par | |
| Municipal Bonds | (000) | Value |
| New York (concluded) | | |
| Utilities (concluded) | | |
| Long Island Power Authority, Refunding RB: | | |
| General, Series A (AGC), 6.00%, 5/01/33 | \$ 1,500 | \$ 1,645,260 |
| General, Series B (AGM), 5.00%, 12/01/35 | 3,500 | 3,532,340 |
| Series A (AGC), 5.75%, 4/01/39 New York City Municipal Water Finance Authority, RB: | 1,000 | 1,069,430 |
| Series A (NPFGC), 5.75%, 6/15/11 (d) | 8,000 | 8,017,120 |
| Series B, 5.00%, 6/15/36 | 3,500 | 3,537,170 |
| Series DD, 5.00%, 6/15/32 | 5,750 | 5,953,262 |

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| Series DD (AGM), 4.50%, 6/15/39 | 2,500 | 2,385,025 |
| Series G (AGM), 5.00%, 6/15/34 | 6,475 | 6,476,878 |
| New York City Municipal Water Finance Authority, Refunding RB: | | |
| 2nd General Resolution, Fiscal 2011, Series BB, 5.00%, 6/15/31 | 1,000 | 1,051,190 |
| Series A (AGM), 4.25%, 6/15/39 | 2,200 | 2,029,192 |
| Series A (NPFGC), 5.13%, 6/15/34 | 1,250 | 1,256,813 |
| Series F (AGM), 5.00%, 6/15/29 | 500 | 500,425 |
| New York State Environmental Facilities Corp., RB, Long Island Water Corp. Project, Series A, AMT (NPFGC), 4.90%, 10/01/34 | 6,000 | 5,491,260 |
| | | 45,973,775 |
| Total Municipal Bonds in New York | | 508,756,926 |
| Guam — 1.6% | | |
| Transportation — 1.1% | | |
| Guam International Airport Authority, Refunding RB, General, Series C, AMT (NPFGC): | | |
| 5.25%, 10/01/21 | 3,700 | 3,710,064 |
| 5.25%, 10/01/22 | 1,050 | 1,052,142 |
| | | 4,762,206 |
| Utilities — 0.5% | | |
| Guam Power Authority, Refunding RB, Series A (AGM), 5.00%, 10/01/37 | 2,400 | 2,246,568 |
| Total Municipal Bonds in Guam | | 7,008,774 |
| Puerto Rico — 17.6% | | |
| County/City/Special District/School District — 0.8% | | |
| Puerto Rico Sales Tax Financing Corp., RB, First Sub, Series A (AGM), 5.00%, 8/01/40 | 1,905 | 1,845,202 |
| Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB, Series A (NPFGC), 5.76%, 8/01/41 (c) | 11,000 | 1,522,070 |
| | | 3,367,272 |

BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Municipal Bonds | | |
| Puerto Rico (continued) | | |
| Housing — 0.7% | | |
| Puerto Rico Housing Finance Authority, Refunding RB, Subordinate, Capital Fund Modernization, 5.13%, 12/01/27 | \$ 3,000 | \$ 3,023,220 |
| State — 6.5% | | |
| Commonwealth of Puerto Rico, GO, Public Improvement, Series A (AGM), 6.00%, 7/01/34 | 500 | 519,515 |
| Commonwealth of Puerto Rico, GO, Refunding: Public Improvement, Series A (NPFGC), 5.50%, 7/01/20 | 1,970 | 2,068,993 |
| Public Improvement, Series A-4 (AGM), 5.25%, 7/01/30 | 1,300 | 1,307,722 |
| Sub-Series C-7 (NPFGC), 6.00%, 7/01/27 | 2,000 | 2,072,120 |
| Sub-Series C-7 (NPFGC), 6.00%, 7/01/28 | 4,000 | 4,122,880 |
| Puerto Rico Commonwealth Infrastructure Financing Authority, RB, CAB, Series A (c): (AMBAC), 4.66%, 7/01/34 | 9,300 | 1,789,320 |
| (AMBAC), 4.67%, 7/01/37 | 2,200 | 328,438 |
| (FGIC), 4.62%, 7/01/31 | 10,280 | 2,605,774 |
| (FGIC), 4.66%, 7/01/33 | 5,500 | 1,158,575 |
| Puerto Rico Convention Center Authority, RB, Series A (AMBAC), 5.00%, 7/01/31 | 3,270 | 2,994,503 |
| Puerto Rico Highway & Transportation Authority, Refunding RB, Series CC (AGM), 5.50%, 7/01/31 | 1,855 | 1,912,041 |
| Puerto Rico Public Buildings Authority, | | |

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|-------------------------------------------------------------------------------------------------------|----------|--------------|
| Refunding RB, Government Facilities, Series M-3 (NPFGC), 6.00%, 7/01/28 | 2,500 | 2,576,800 |
| Puerto Rico Sales Tax Financing Corp., RB, First Sub, Series A: 5.63%, 8/01/30 | 1,000 | 1,008,960 |
| 5.75%, 8/01/37 | 3,000 | 3,025,380 |
| Puerto Rico Sales Tax Financing Corp., Refunding RB, CAB, Series A (NPFGC), 5.98%, 8/01/43 (c) | 2,500 | 299,475 |
| | | 27,790,496 |
| Transportation — 7.0% | | |
| Puerto Rico Highway & Transportation Authority, RB: Series Y (AGM), 6.25%, 7/01/21 (a) | 5,025 | 5,684,330 |
| Subordinate (FGIC), 5.25%, 7/01/17 | 4,800 | 4,919,088 |
| Puerto Rico Highway & Transportation Authority, Refunding RB: Series AA-1 (AGM), 4.95%, 7/01/26 | 6,350 | 6,363,526 |
| Series CC (AGM), 5.50%, 7/01/29 | 2,145 | 2,235,133 |
| Series D, 5.75%, 7/01/12 (d) | 10,000 | 10,582,200 |
| | | 29,784,277 |
| | Par | |
| Municipal Bonds | (000) | Value |
| Puerto Rico (concluded) | | |
| Utilities — 2.6% | | |
| Puerto Rico Aqueduct & Sewer Authority, RB, Senior Lien, Series A (AGC), 5.13%, 7/01/47 | \$ 8,925 | \$ 8,265,532 |
| Puerto Rico Electric Power Authority, RB: Series NN, 5.13%, 7/01/13 (d) | 940 | 1,027,927 |
| Series RR (NPFGC), 5.00%, 7/01/24 | 1,000 | 999,960 |
| Puerto Rico Electric Power Authority, Refunding RB, Series VV (NPFGC), 5.25%, 7/01/30 | 1,000 | 976,410 |
| | | 11,269,829 |
| Total Municipal Bonds in Puerto Rico | | 75,235,094 |
| Total Municipal Bonds – 138.0% | | 591,000,794 |

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Municipal Bonds Transferred to Tender

Option Bond Trusts (e)

New York — 32.2%

County/City/Special District/School District — 7.9%

City of New York New York, GO:

| | | |
|---------------------------------------------------------------------------------------------------------------|--------|------------|
| Series J, 5.00%, 5/15/23 | 6,800 | 7,267,432 |
| Sub-Series C-3 (AGC), 5.75%, 8/15/28 | 10,000 | 11,155,600 |
| New York State Dormitory Authority, RB, State University Dormitory Facilities, Series A, 5.25%, 7/01/29 | 5,000 | 5,328,300 |
| Sales Tax Asset Receivable Corp., RB, Series A (AMBAC): 5.25%, 10/15/27 | 4,750 | 5,031,223 |
| 5.00%, 10/15/32 | 4,750 | 5,031,224 |
| | | 33,813,779 |

Education — 1.3%

New York State Dormitory Authority, RB,

New York University, Series A, 5.00%,

| | | |
|---------|-------|-----------|
| 7/01/38 | 5,498 | 5,570,208 |
|---------|-------|-----------|

State — 1.3%

New York State Dormitory Authority,

| | | |
|-------------------------------|-------|-----------|
| ERB, Series B, 5.75%, 3/15/36 | 5,000 | 5,485,600 |
|-------------------------------|-------|-----------|

Transportation — 20.1%

Metropolitan Transportation Authority,

RB, Series A (NPFGC), 5.00%,

| | | |
|----------|-------|-----------|
| 11/15/31 | 7,002 | 7,105,203 |
|----------|-------|-----------|

Metropolitan Transportation Authority,

Refunding RB, Series A (AGM):

| | | |
|-----------------|-------|-----------|
| 5.00%, 11/15/30 | 5,010 | 5,028,687 |
|-----------------|-------|-----------|

| | | |
|-----------------|--------|------------|
| 5.75%, 11/15/32 | 29,000 | 29,794,890 |
|-----------------|--------|------------|

New York State Thruway Authority, RB,

| | | |
|--------------------------------|--------|------------|
| Series G (AGM), 5.00%, 1/01/32 | 12,000 | 12,180,840 |
|--------------------------------|--------|------------|

New York State Thruway Authority,

Refunding RB, Series H (AGM), 5.00%,

| | | |
|---------|-------|-----------|
| 1/01/37 | 8,500 | 8,594,605 |
|---------|-------|-----------|

BLACKROCK MUNIHOLDINGS NEW YORK QUALITY FUND, INC.

MAY 31, 2011

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BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

| Municipal Bonds Transferred to Tender | Par | | Value |
|------------------------------------------------------------------------------------------------------------------|--------|-----------|--------------|
| Option Bond Trusts (e) | (000) | | |
| New York (concluded) | | | |
| Transportation (concluded) | | | |
| Port Authority of New York & New Jersey, RB, Consolidated, 155th Series, AMT (AGM), 5.13%, 7/15/30 | | \$ 2,500 | \$ 2,534,100 |
| Triborough Bridge & Tunnel Authority, Refunding RB (NPFGC): | | | |
| 5.00%, 11/15/32 | | 8,309 | 8,359,661 |
| 5.25%, 11/15/23 | | 12,000 | 12,503,040 |
| | | | 86,101,026 |
| Utilities — 1.6% | | | |
| New York City Municipal Water Finance Authority, RB: | | | |
| Fiscal 2009, Series A, 5.75%, 6/15/40 | | 4,004 | 4,368,649 |
| Series FF-2, 5.50%, 6/15/40 | | 2,399 | 2,558,022 |
| | | | 6,926,671 |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts – 32.2% | | | 137,897,284 |
| Total Long-Term Investments (Cost – \$733,960,160) – 170.2% | | | 728,898,078 |
| Short-Term Securities | Shares | | |
| Money Markets — 1.7% | | | |
| BIF New York Municipal Money Fund (f)(g) | | 7,493,240 | 7,493,240 |
| New York — 0.1% | | | |
| City of New York New York, GO, VRDN, Sub-Series A-6 (AGM Insurance, Dexia Credit Local SBPA), 0.45% (h) | | 375,000 | 375,000 |
| Total Short-Term Securities (Cost – \$7,868,241) – 1.8% | | | 7,868,240 |
| Total Investments (Cost - \$741,828,401*) – 172.0% | | | 736,766,318 |

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| | |
|------------------------------------------------------|---------------|
| Other Assets Less Liabilities – 1.6% | 6,904,814 |
| Liability for Trust Certificates, Including Interest | |
| Expense and Fees Payable – (16.8)% | (71,752,574) |
| Preferred Shares, at Redemption Value – (56.9)% | (243,640,532) |
| Net Assets Applicable to Common Shares – 100.0% \$ | 428,278,026 |

* The cost and unrealized appreciation (depreciation) of investments as of May 31, 2011, as computed for federal income tax purposes, were as follows:

| | |
|-------------------------------|----------------|
| Aggregate cost | \$ 670,187,653 |
| Gross unrealized appreciation | \$ 16,758,375 |
| Gross unrealized depreciation | (21,892,310) |
| Net unrealized depreciation | \$ (5,133,935) |

* Cost for federal income tax purposes.

(a) Variable rate security. Rate shown is as of report date.

(b) When-issued security. Unsettled when-issued transactions were as follows:

| Counterparty | Value | Unrealized Appreciation |
|--------------------------|--------------|----------------------------|
| Citigroup Global Markets | \$ 1,045,580 | \$ 160 |

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

(d) 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.

(e) 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.

(f) 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:

| Affiliate | Shares Held at August 31, 2010 | Net Activity | Shares Held at May 31, 2011 | Income |
|-----------------------------------------|-----------------------------------------|-----------------|--------------------------------------|---------|
| BIF New York Municipal Money Fund | 8,738,117 | (1,244,877) | 7,493,240 | \$1,528 |

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

(h) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.

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• Financial futures contracts sold as of May 31, 2011 were as follows:

| Contracts | Issue | Exchange | Expiration | Notional Value | Unrealized Depreciation |
|-----------|-------------------------------|------------------------------|-------------------|-------------------|----------------------------|
| 176 | Long-Term Treasury Bond | Chicago Board of Trade | September 2011 | \$21,924,041 | \$(48,459) |

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

6 BLACKROCK MUNIHOLDINGS NEW YORK QUALITY FUND, INC.

MAY 31, 2011

BlackRock MuniHoldings New York Quality Fund, Inc. (MHN)

Schedule of Investments (concluded)

•Fair Value Measurements - Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are summarized in three broad levels for financial reporting purposes 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 and derivative financial instruments)

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 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 inputs used as of May 31, 2011 in determining the fair valuation of the Fund's investments and derivative financial instruments:

| Valuation Inputs | Level 1 | Level 2 | Level 3 | Total | |
|--------------------------|--------------|--------------|---------------|-------|----------------|
| Assets: | | | | | |
| Investments: | | | | | |
| Long-Term | | | | | |
| Investments ¹ | | — | \$728,898,078 | — | \$ 728,898,078 |
| Short-Term | | | | | |
| Securities | \$ 7,493,240 | | 375,000 | — | 7,868,240 |
| Total | | \$ 7,493,240 | \$729,273,078 | — | \$ 736,766,318 |

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

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| Valuation Inputs | Level 1 | Level 2 | Level 3 | Total |
|-----------------------------------------------|---------|---------------|---------|-------------|
| Derivative Financial Instruments ² | | | | |
| Liabilities: | | | | |
| Interest rate | | | | |
| contracts | | \$ (48,459) — | — | \$ (48,459) |

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

BLACKROCK MUNIHOLDINGS NEW YORK QUALITY FUND, INC.

MAY 31, 2011

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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 York Quality Fund, Inc.

By: /S/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of
BlackRock MuniHoldings New York Quality Fund, Inc.

Date: July 26, 2011

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 York Quality Fund, Inc.

Date: July 26, 2011

By: /S/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of
BlackRock MuniHoldings New York Quality Fund, Inc.

Date: July 26, 2011