

BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

Form N-Q

July 29, 2010

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

FORM N-Q

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

Investment Company Act file number 811-08217

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

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Anne F. Ackerley, Chief Executive Officer, BlackRock
MuniHoldings New York Insured 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: 08/31/2010

Date of reporting period: 05/31/2010

Item 1 Schedule of Investments

Schedule of Investments May 31, 2010 (Unaudited)

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

(Percentages shown are based on Net Assets)

| | (000) | Value | Par |
|------------------------------------------------------------------------------------------------------------------------|--------|-------|--------------|
| Municipal Bonds | | | |
| New York | 116.5% | | |
| Corporate | 8.2% | | |
| New York City Industrial Development Agency, Refunding RB, Terminal One Group Association Project, AMT, 5.50%, 1/01/24 | | | \$ 1,500 |
| | | | \$ 1,536,855 |
| New York Liberty Development Corp., RB, Goldman Sachs Headquarters, 5.25%, 10/01/35 | | | 1,500 |
| | | | 1,507,860 |
| New York State Energy Research & Development Authority, RB, Lilco Project, Series A (NPFGC), 5.15%, 3/01/16 | | | 2,000 |
| | | | 2,032,980 |
| New York State Energy Research & Development Authority, Refunding RB, Series A: | | | |
| Brooklyn Union Gas/Keyspan, AMT (FGIC), 4.70%, 2/01/24 | | | 7,340 |
| | | | 7,346,753 |
| Central Hudson Gas (AMBAC), 5.45%, 8/01/27 | | | 6,000 |
| | | | 6,027,900 |
| Suffolk County Industrial Development Agency New York, RB, KeySpan, Port Jefferson, AMT, 5.25%, 6/01/27 | | | 4,355 |
| | | | 4,321,118 |
| Suffolk County Industrial Development Agency New York, Refunding RB, Ogden Martin System Huntington, AMT (AMBAC): | | | |
| 6.00%, 10/01/10 | | | 4,660 |
| | | | 4,735,212 |
| 6.15%, 10/01/11 | | | 5,000 |
| | | | 5,294,050 |
| 6.25%, 10/01/12 | | | 3,530 |
| | | | 3,829,450 |
| | | | 36,632,178 |
| County/City/Special District/School District | 33.3% | | |
| City of New York New York, GO, Series B (NPFGC): | | | |
| 5.75%, 8/01/10 (a) | | | 1,740 |
| | | | 1,773,965 |

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| | Par | Value |
|------------------------------------------------------------------------------------------------------------|----------|--------------|
| Municipal Bonds | (000) | Value |
| 5.75%, 8/01/13 | 540 | 550,130 |
| City of Yonkers New York, GO, Series A (FGIC), 5.75%, 10/01/10 | 1,795 | 1,846,050 |
| Hudson Yards Infrastructure Corp., RB, Series A: | | |
| (FGIC), 5.00%, 2/15/47 | 10,250 | 9,950,803 |
| (NPFGC), 4.50%, 2/15/47 | 14,180 | 13,063,750 |
| New York (continued) | | |
| County/City/Special District/School | | |
| District (continued) | | |
| New York City Health & Hospital Corp., Refunding RB, Health System, Series A (NPFGC), 5.25%, 2/15/17 | \$ 2,000 | \$ 2,005,360 |
| New York City Industrial Development Agency, RB, PILOT: | | |
| CAB, Yankee Stadium (AGC), 6.50%, 3/01/39 (b) | 1,380 | 264,325 |
| Queens Baseball Stadium (AGC), 6.38%, 1/01/39 | 800 | 886,032 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/31 | 3,500 | 3,269,385 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/36 | 12,740 | 11,404,466 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/39 | 4,000 | 3,550,560 |
| Queens Baseball Stadium (AMBAC), 5.00%, 1/01/46 | 7,800 | 6,811,818 |
| Yankee Stadium (FGIC), 5.00%, 3/01/46 | 9,500 | 9,073,545 |
| Yankee Stadium (NPFGC), 5.00%, 3/01/36 | 3,950 | 3,876,728 |
| New York City Transitional Finance Authority, RB: | | |
| Fiscal 2008, Series S-1, 4.50%, 1/15/38 | 1,510 | 1,484,119 |
| Fiscal 2009, Series S-1 (AGC), 5.50%, 7/15/38 | 4,000 | 4,372,120 |
| Fiscal 2009, Series S-4 (AGC), | | |

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| | | |
|---------------------------------------------------------------------------|--------|------------|
| 5.50%, 1/15/39 Future Tax Secured, Series C (FGIC), | 1,250 | 1,372,250 |
| 5.00%, 2/01/33 Future Tax Secured, Series E (NPFGC), 5.25%, 2/01/22 | 10,000 | 10,296,700 |
| Series B (NPFGC), 5.50%, 2/01/11 (a) | 2,500 | 2,683,450 |
| Series B (NPFGC), 5.50%, 2/01/11 (a) | 695 | 724,857 |
| Series B (NPFGC), 5.50%, 2/01/13 | 1,145 | 1,194,189 |
| Series S-2 (AGM), 5.00%, 1/15/37 | 110 | 114,696 |
| | 3,750 | 3,886,725 |

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:

| | | | |
|-------|-----------------------------------------|--------|-----------------------------------------|
| ACA | American Capital Access Corp. | FHLMC | Federal Home Loan Mortgage Corp. |
| AGC | Assured Guaranty Corp. | FNMA | Federal National Mortgage Association |
| AGM | Assured Guaranty Municipal Corp. | GO | General Obligation Bonds |
| AMBAC | American Municipal Bond Assurance Corp. | HFA | Housing Finance Agency |
| AMT | Alternative Minimum Tax (subject to) | MRB | Mortgage Revenue Bonds |
| BHAC | Berkshire Hathaway Assurance Corp. | NPFGC | National Public Finance Guarantee Corp. |
| CAB | Capital Appreciation Bonds | PILOT | Payment in Lieu of Taxes |
| CIFG | CDC IXIS Financial Guaranty | RB | Revenue Bonds |
| ERB | Education Revenue Bonds | SBPA | Stand-by Bond Purchase Agreement |
| FGIC | Financial Guaranty Insurance Co. | SONYMA | State of New York Mortgage Agency |
| FHA | Federal Housing Administration | VRDN | Variable Rate Demand Notes |

BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

MAY 31, 2010

Schedule of Investments (continued)

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

(Percentages shown are based on Net Assets)

| | Municipal Bonds | Par (000) | Value |
|---------------------------------------|-----------------|--------------|--------------|
| New York (continued) | | | |
| County/City/Special District/School | | | |
| District (concluded) | | | |
| New York City Transitional Finance | | | |
| Authority, RB (concluded): | | | |
| Series S-2 (NPFGC), 4.25%, | | | |
| 1/15/34 | | | |
| | | \$ 4,830 | \$ 4,679,787 |
| New York City Transitional Finance | | | |
| Authority, Refunding RB, Series A | | | |
| (FGIC), 5.00%, 11/15/26 | | | |
| | | 1,000 | 1,047,170 |
| New York Convention Center | | | |
| Development Corp., RB, Hotel Unit | | | |
| Fee Secured (AMBAC): | | | |
| 5.00%, 11/15/30 | | | |
| | | 2,100 | 2,129,001 |
| 5.00%, 11/15/35 | | | |
| | | 20,500 | 20,587,125 |
| 5.00%, 11/15/44 | | | |
| | | 2,055 | 2,059,829 |
| Oneida-Herkimer Solid Waste | | | |
| Management Authority New York, | | | |
| Refunding RB (AGM), 5.50%, 4/01/13 | | | |
| | | 1,800 | 2,013,966 |
| Sales Tax Asset Receivable Corp., RB, | | | |
| Series A (AMBAC), 5.25%, 10/15/27 | | | |
| | | 14,175 | 14,859,794 |
| Syracuse Industrial Development | | | |
| Agency New York, RB, Carousel Center | | | |
| Project, Series A, AMT (Syncora), | | | |
| 5.00%, 1/01/36 | | | |
| | | 10,000 | 7,113,900 |
| | | | 148,946,595 |
| Education 12.1% | | | |
| City of Troy New York, Refunding RB, | | | |
| Rensselaer Polytechnic, Series A, | | | |
| 5.13%, 9/01/40 | | | |
| | | 1,050 | 1,069,635 |
| Madison County Industrial Development | | | |
| Agency New York, RB, Colgate | | | |
| University Project, Series A (AMBAC), | | | |
| 5.00%, 7/01/30 | | | |
| | | 4,000 | 4,148,880 |
| New York City Industrial Development | | | |

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Agency, Refunding RB:

| | | |
|----------------------------------------------------------|-------|-----------|
| Nightingale-Bamford School (AMBAC), 5.25%, 1/15/17 | 1,200 | 1,297,944 |
| Polytechnic University Project (ACA), 5.25%, 11/01/37 | 2,160 | 1,940,587 |

New York City Transitional Finance

| | | |
|-----------------------------------------------------------------|-------|-----------|
| Authority, RB, Fiscal 2009, Series S-4 (AGC), 5.50%, 1/15/33 | 3,000 | 3,320,940 |
|-----------------------------------------------------------------|-------|-----------|

New York State Dormitory Authority, RB:

| | | |
|------------------------------------------------------------------|-------|-----------|
| Mount Sinai School of Medicine, 5.13%, 7/01/39 | 3,090 | 3,106,593 |
| Mount Sinai School of Medicine at NYU (NPFGC), 5.00%, 7/01/35 | 6,100 | 6,091,033 |
| New York University, Series 1 (AMBAC), 5.50%, 7/01/40 | 3,500 | 4,141,025 |
| Pace University (NPFGC), 6.00%, 7/01/10 (a) | 1,845 | 1,872,952 |
| Pace University (NPFGC), 6.00%, 7/01/10 (a) | 3,500 | 3,553,025 |
| Siena College, 5.13%, 7/01/39 | 1,345 | 1,358,073 |

Par
Municipal Bonds (000) Value

New York (continued)

Education (concluded)

Schenectady County Industrial

| | | |
|-----------------------------------------------------------------------------------------------------|----------|--------------|
| Development Agency, Refunding RB, Union College Project, Series A (AMBAC), 5.63%, 7/01/11 (a) | \$ 3,000 | \$ 3,232,380 |
|-----------------------------------------------------------------------------------------------------|----------|--------------|

Trust for Cultural Resources, RB,

| | | |
|---------------------------------------------|-------|-----------|
| Carnegie Hall, Series A: 4.75%, 12/01/39 | 3,150 | 3,169,152 |
| 5.00%, 12/01/39 | 1,850 | 1,897,860 |

Trust for Cultural Resources, Refunding

| | | |
|--------------------------------------------------------------------------------|-------|-----------|
| RB, American Museum of Natural History, Series A (NPFGC), 5.00%, 7/01/36 | 6,800 | 7,021,408 |
|--------------------------------------------------------------------------------|-------|-----------|

Westchester County Industrial

| | | |
|------------------------------------------------------------------------------------------------------|--|--|
| Development Agency New York, RB, Purchase College Foundation Housing, Series A (AMBAC), 5.75%, | | |
|------------------------------------------------------------------------------------------------------|--|--|

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| | | |
|-----------------------------------------|-------|------------|
| 12/01/31 | 7,000 | 7,066,220 |
| | | 54,287,707 |
| Health 6.9% | | |
| New York City Industrial Development | | |
| Agency, RB, Royal Charter, New York | | |
| Presbyterian (AGM), 5.75%, | | |
| 12/15/29 | 7,965 | 8,478,902 |
| New York State Dormitory Authority, | | |
| MRB, Montefiore Hospital (NPFGC), | | |
| 5.00%, 8/01/33 | 1,000 | 1,012,810 |
| New York State Dormitory Authority, RB: | | |
| Gustavus Adolphus Child & Family | | |
| Services, Inc., Series B (AMBAC), | | |
| 5.50%, 7/01/18 | 2,058 | 2,084,754 |
| Hudson Valley Hospital (BHAC), | | |
| 5.00%, 8/15/36 | 5,000 | 5,252,750 |
| New York & Presbyterian Hospital | | |
| (AGM), 5.25%, 2/15/31 | 1,500 | 1,557,795 |
| New York & Presbyterian Hospital | | |
| (AGM), 5.00%, 8/15/36 | 4,000 | 4,075,720 |
| New York State Rehabilitation | | |
| Association, Series A (CIFG), 5.25%, | | |
| 7/01/19 | 1,180 | 1,210,361 |
| New York State Rehabilitation | | |
| Association, Series A (CIFG), 5.13%, | | |
| 7/01/23 | 1,000 | 1,006,340 |
| North Shore-Long Island Jewish | | |
| Health System, Series A, 5.50%, | | |
| 5/01/37 | 1,825 | 1,876,739 |
| New York State Dormitory Authority, | | |
| Refunding RB: | | |
| St. Charles Hospital & | | |
| Rehabilitation Center, Series A | | |
| (NPFGC), 5.63%, 7/01/12 | 3,400 | 3,443,962 |
| St. Luke's Roosevelt Hospital (FHA), | | |
| 4.90%, 8/15/31 | 1,000 | 1,003,210 |
| | | 31,003,343 |

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MAY 31, 2010

Schedule of Investments (continued)

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

(Percentages shown are based on Net Assets)

| | Municipal Bonds | Par | (000) | Value |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------|-------|--------------|
| New York (continued) | | | | |
| Housing 4.3% | | | | |
| New York City Housing Development Corp., RB, AMT: | | | | |
| Series C, 5.00%, 11/01/26 | | \$ 1,250 | | \$ 1,265,338 |
| Series C, 5.05%, 11/01/36 | | 2,000 | | 1,912,840 |
| Series H-1, 4.70%, 11/01/40 | | 1,000 | | 939,360 |
| New York Mortgage Agency, RB, | | | | |
| | Series 145, AMT, 5.13%, 10/01/37 | 1,000 | | 1,005,370 |
| New York Mortgage Agency, Refunding | | | | |
| RB: | | | | |
| Homeowner Mortgage, Series 67, AMT (NPFGC), 5.70%, 10/01/17 | | 2,140 | | 2,142,568 |
| Homeowner Mortgage, Series 83 (NPFGC), 5.55%, 10/01/27 | | 2,100 | | 2,101,428 |
| Homeowner Mortgage, Series 97, AMT, 5.50%, 4/01/31 | | 840 | | 843,150 |
| Series 82, AMT (NPFGC), 5.65%, 4/01/30 | | 825 | | 825,429 |
| Series 133, AMT, 4.95%, 10/01/21 | | 685 | | 695,850 |
| Series 143, AMT, 4.90%, 10/01/37 | | 965 | | 932,499 |
| Series 143, AMT (NPFGC), 4.85%, 10/01/27 | | 2,000 | | 2,003,340 |
| New York State HFA, RB, St. Philip's Housing, Series A, AMT (FNMA), 4.65%, 11/15/38 | | | | |
| | Yonkers Economic Development Corp., Refunding RB, Riverview II (FHLMC), 4.50%, 5/01/25 | 1,500 | | 1,501,140 |
| Yonkers Industrial Development Agency | | | | |
| New York, RB, Monastery Manor Associates LP Project, AMT (SONYMA), 5.25%, 4/01/37 | | | | |
| | | 2,000 | | 1,965,940 |
| | | | | 19,116,112 |

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State 10.8%

New York State Dormitory Authority, RB:

| | | |
|-------------------------------------------------------------------------------------|-------|-----------|
| Master BOCES Program Lease (AGC), 4.75%, 8/15/24 | 1,090 | 1,146,418 |
| Master BOCES Program Lease (AGC), 5.00%, 8/15/28 | 250 | 262,988 |
| Mental Health Facilities, Series B, 5.25%, 2/15/14 (a) | 1,550 | 1,744,385 |
| Mental Health Services Facilities Improvement, Series B (AGM), 5.00%, 2/15/33 | 4,500 | 4,703,085 |
| Mental Health Services Facilities, Series C, AMT (AGM), 5.40%, 2/15/33 | 5,650 | 5,720,512 |
| School Districts Financing Program, Series A (AGM), 5.00%, 10/01/35 | 450 | 465,898 |
| School Districts Financing Program, Series C (AGM), 5.00%, 10/01/37 | 2,500 | 2,583,575 |

| | Par | | |
|-----------------|-----|-------|-------|
| Municipal Bonds | | (000) | Value |

New York (continued)

State (concluded)

New York State Dormitory Authority, RB

(concluded):

| | | |
|-----------------------------------------------------------------------------|----------|--------------|
| School Districts Financing Program, Series D (NPFGC), 5.00%, 10/01/30 | \$ 1,240 | \$ 1,255,488 |
| School Districts Financing Program, Series E (NPFGC), 5.75%, 10/01/30 | 6,900 | 7,319,589 |

New York State Dormitory Authority,

Refunding RB:

| | | |
|-----------------------------------------------------------------------|-------|-----------|
| School District Financing Program, Series A (AGM), 5.00%, 10/01/35 | 5,000 | 5,196,650 |
| Secured Hospital, North General Hospital (Syncora), 5.75%, 2/15/17 | 2,000 | 2,147,260 |

New York State Thruway Authority, RB:

| | | |
|---------------------------------------------|-------|-----------|
| Second General, Series B, 5.00%, 4/01/27 | 1,000 | 1,071,570 |
| Series A (AMBAC), 5.00%, 4/01/26 | 8,700 | 9,265,326 |

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New York State Urban Development

Corp., RB (NPFGC):

| | | |
|-------------------------------------------------------------------------------|-------|------------|
| Personal Income Tax, Series C-1, 5.00%, 3/15/13 (a) | 3,000 | 3,338,430 |
| State Personal Income Tax, State Facilities, Series A-1, 5.00%, 3/15/29 | 2,000 | 2,086,160 |
| | | 48,307,334 |

Tobacco 4.9%

Tobacco Settlement Financing Corp.

New York, RB, Asset-Backed,

Series A-1 (AMBAC):

| | | |
|----------------|--------|------------|
| 5.25%, 6/01/20 | 5,000 | 5,416,850 |
| 5.25%, 6/01/21 | 13,275 | 14,251,111 |
| 5.25%, 6/01/22 | 2,000 | 2,137,980 |
| | | 21,805,941 |

Transportation 23.8%

Hudson Yards Infrastructure Corp., RB:

| | | |
|--------------------------------|-------|-----------|
| (AGC), 5.00%, 2/15/47 | 7,370 | 7,466,694 |
| Series A (AGC), 5.00%, 2/15/47 | 305 | 309,002 |
| Series A (AGM), 5.00%, 2/15/47 | 6,000 | 6,089,100 |

Metropolitan Transportation Authority,

RB:

| | | |
|------------------------------------------------------|-------|-----------|
| Series 2008C, 6.50%, 11/15/28 | 6,015 | 7,043,204 |
| Transportation, Series A (NPFGC), 5.00%, 11/15/32 | 1,100 | 1,113,222 |

Metropolitan Transportation Authority,

Refunding RB:

| | | |
|--------------------------------------|-------|-----------|
| Series A, 5.13%, 1/01/29 | 1,150 | 1,177,531 |
| Series A (NPFGC), 5.25%, 11/15/31 | 2,500 | 2,558,450 |
| Series C (AGM), 4.75%, 7/01/12 (a) | 2,535 | 2,751,667 |

BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

MAY 31, 2010

Schedule of Investments (continued)

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

(Percentages shown are based on Net Assets)

| | Municipal Bonds | Par (000) | Value |
|------------------------------------------|-----------------|--------------|--------------|
| New York (continued) | | | |
| Transportation (concluded) | | | |
| Metropolitan Transportation Authority, | | | |
| Refunding RB (concluded): | | | |
| Transportation, Series F (NPFGC), | | | |
| 5.25%, 11/15/12 (a) | | \$ 6,300 | \$ 6,993,252 |
| New York State Thruway Authority, RB: | | | |
| Series F (AMBAC), 5.00%, 1/01/30 | | 5,000 | 5,150,550 |
| Series G (AGM), 4.75%, 1/01/29 | | 1,250 | 1,276,000 |
| Series G (AGM), 4.75%, 1/01/30 | | 1,000 | 1,016,230 |
| Series G (AGM), 5.00%, 1/01/32 | | 5,225 | 5,395,283 |
| Niagara Falls Bridge Commission, | | | |
| Refunding RB, Bridge System, | | | |
| Series A (AGC), 4.00%, 10/01/19 | | 2,600 | 2,757,014 |
| Port Authority of New York & New Jersey, | | | |
| RB: | | | |
| Consolidated 116th Series, 4.13%, | | | |
| 9/15/32 | | 2,685 | 2,637,180 |
| Consolidated 161st Series, 4.50%, | | | |
| 10/15/37 | | 1,000 | 1,009,870 |
| Special Project, JFK International Air | | | |
| Terminal, Series 6, AMT (NPFGC), | | | |
| 6.25%, 12/01/11 | | 3,000 | 3,106,290 |
| Special Project, JFK International Air | | | |
| Terminal, Series 6, AMT (NPFGC), | | | |
| 6.25%, 12/01/15 | | 7,830 | 8,307,787 |
| Special Project, JFK International Air | | | |
| Terminal, Series 6, AMT (NPFGC), | | | |
| 5.90%, 12/01/17 | | 4,000 | 4,024,640 |
| Special Project, JFK International Air | | | |
| Terminal, Series 6, AMT (NPFGC), | | | |
| 5.75%, 12/01/22 | | 26,725 | 26,744,509 |
| Triborough Bridge & Tunnel Authority, | | | |
| RB: | | | |

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| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|----------|--------------|
| Sub-Series A (NPFGC), 5.25%, 11/15/30 | | 6,000 | 6,349,260 |
| Subordinate Bonds (AMBAC), 5.00%, 11/15/28 | | 2,465 | 2,557,684 |
| | | | 105,834,419 |
| Utilities 12.4% | | | |
| Long Island Power Authority, RB, Series A (AMBAC), 5.00%, 9/01/29 | | 3,000 | 3,081,900 |
| Long Island Power Authority, Refunding RB: | | | |
| General, Series A (AGC), 6.00%, 5/01/33 | | 1,500 | 1,697,985 |
| General, Series B (AGM), 5.00%, 12/01/35 | | 3,500 | 3,622,885 |
| Series A (AGC), 5.75%, 4/01/39 | | 1,000 | 1,122,070 |
| New York City Municipal Water Finance Authority, RB: | | | |
| Series A (AMBAC), 5.00%, 6/15/35 | | 3,500 | 3,579,240 |
| Series A (NPFGC), 5.75%, 6/15/11 (a) | | 23,000 | 24,285,470 |
| Series DD (AGM), 4.50%, 6/15/39 | | 3,000 | 2,947,410 |
| | | | |
| | | Par | |
| Municipal Bonds | (000) | Value | |
| New York (concluded) | | | |
| Utilities (concluded) | | | |
| New York City Municipal Water Finance Authority, Refunding RB: | | | |
| Fiscal 2004, Series C (NPFGC), 5.00%, 6/15/35 | | \$ 1,000 | \$ 1,029,470 |
| Series A (AGM), 4.25%, 6/15/39 | | 2,200 | 2,156,044 |
| Series A (NPFGC), 5.13%, 6/15/34 | | 1,250 | 1,305,862 |
| Series F (AGM), 5.00%, 6/15/29 | | 500 | 505,480 |
| New York State Environmental Facilities Corp., RB, Long Island Water Corp. Project, Series A, AMT (NPFGC), 4.90%, 10/01/34 | | 6,000 | 5,704,980 |
| New York State Environmental Facilities Corp., Refunding RB, Spring Valley Water Co., Series B (AMBAC), 6.15%, 8/01/24 | | 4,400 | 4,419,140 |

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| | | | | |
|----------------------------------------------------------|-----------------|-----------|--------|-------------|
| | | | | 55,457,936 |
| Total Municipal Bonds in New York | | | | 521,391,565 |
| Guam 1.1% | | | | |
| Transportation 1.1% | | | | |
| Guam International Airport Authority, | | | | |
| Refunding RB, General, Series C, AMT | | | | |
| (NPFGC): | | | | |
| 5.25%, 10/01/21 | | | 3,700 | 3,703,515 |
| | 5.25%, 10/01/22 | | 1,050 | 1,050,472 |
| Total Municipal Bonds in Guam | | | | 4,753,987 |
| Puerto Rico 17.8% | | | | |
| 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 | 1,948,891 |
| Puerto Rico Sales Tax Financing Corp., | | | | |
| Refunding RB, CAB, Series A (NPFGC), | | | | |
| 5.78%, 8/01/41 (b) | | | 11,000 | 1,729,640 |
| | | | | 3,678,531 |
| Housing 0.7% | | | | |
| Puerto Rico Housing Finance Authority, | | | | |
| Refunding RB, Subordinate, Capital | | | | |
| Fund Modernization, 5.13%, | | | | |
| 12/01/27 | 3,000 | 3,023,640 | | |
| State 7.3% | | | | |
| Commonwealth of Puerto Rico, GO, | | | | |
| Refunding: | | | | |
| Public Improvement, Series A | | | | |
| (NPFGC), 5.50%, 7/01/20 | | | 1,970 | 2,131,619 |
| Public Improvement, Series A | | | | |
| (NPFGC), 5.50%, 7/01/21 | | | 3,000 | 3,243,240 |
| Public Improvement, Series A-4 | | | | |
| (AGM), 5.25%, 7/01/30 | | | 1,400 | 1,457,666 |
| Sub-Series C-7 (NPFGC), 6.00%, | | | | |
| 7/01/27 | | | 2,000 | 2,162,040 |

4 BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

MAY 31, 2010

Schedule of Investments (continued)

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

(Percentages shown are based on Net Assets)

| Municipal Bonds | (000) | Value | Par |
|-----------------------------------------|-------|--------|--------------|
| Puerto Rico (concluded) | | | |
| State (concluded) | | | |
| Commonwealth of Puerto Rico, GO, | | | |
| Refunding (concluded): | | | |
| Sub-Series C-7 (NPFGC), 6.00%, | | | |
| 7/01/28 | | | \$ 4,000 |
| | | | \$ 4,318,520 |
| Puerto Rico Commonwealth | | | |
| Infrastructure Financing Authority, RB, | | | |
| CAB, Series A (b): | | | |
| (AMBAC), 4.66%, 7/01/34 | | 9,300 | 1,860,093 |
| (AMBAC), 4.67%, 7/01/37 | | 2,200 | 349,426 |
| (FGIC), 4.62%, 7/01/31 | | 10,280 | 2,606,905 |
| (FGIC), 4.66%, 7/01/33 | | 5,500 | 1,188,495 |
| Puerto Rico Convention Center | | | |
| Authority, RB, Series A (AMBAC), | | | |
| 5.00%, 7/01/31 | | 3,270 | 3,252,963 |
| Puerto Rico Highway & Transportation | | | |
| Authority, Refunding RB, Series CC | | | |
| (AGM): | | | |
| 5.50%, 7/01/31 | | 4,000 | 4,374,240 |
| 5.25%, 7/01/32 | | 2,000 | 2,113,220 |
| Puerto Rico Public Buildings Authority, | | | |
| Refunding RB, Government Facilities, | | | |
| Series M-3 (NPFGC), 6.00%, 7/01/28 | | 2,500 | 2,676,575 |
| Puerto Rico Sales Tax Financing Corp., | | | |
| RB, First Sub-Series A, 5.75%, | | | |
| 8/01/37 | | 1,000 | 1,063,650 |
| | | | 32,798,652 |
| Transportation 6.2% | | | |
| Puerto Rico Highway & Transportation | | | |
| Authority, RB: | | | |
| Series Y (AGM), 6.25%, 7/01/21 | | 5,025 | 5,615,337 |
| Subordinate (FGIC), 5.25%, | | | |
| 7/01/17 | | 4,800 | 4,962,960 |
| Puerto Rico Highway & Transportation | | | |

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Authority, Refunding RB:

| | | |
|---------------------------------|--------|------------|
| Series CC (AGM), 5.25%, 7/01/33 | 1,000 | 1,058,020 |
| Series CC (AGM), 5.25%, 7/01/34 | 870 | 919,094 |
| Series CC (AGM), 5.25%, 7/01/36 | 3,750 | 3,964,763 |
| Series D, 5.75%, 7/01/12 (a) | 10,000 | 10,989,500 |
| | | 27,509,674 |

Utilities 2.8%

Puerto Rico Aqueduct & Sewer Authority,
RB, Senior Lien, Series A (AGC),
5.13%, 7/01/47

10,175 10,260,368

Puerto Rico Electric Power Authority, RB,
Series NN, 5.13%, 7/01/13 (a)

940 1,058,356

Puerto Rico Electric Power Authority,
Refunding RB, Series VV (NPFGC),
5.25%, 7/01/30

1,000 1,046,990

12,365,714

Total Municipal Bonds in Puerto Rico 79,376,211

Total Municipal Bonds 135.4%

605,521,763

Municipal Bonds Transferred to Tender

Option Bond Trusts (c)

(000)

Value

Par

New York 31.6%

County/City/Special District/School District 8.1%

City of New York New York, GO:

Series J, 5.00%, 5/15/23

\$ 6,800 \$ 7,269,200

Sub-Series C-3 (AGC), 5.75%,
8/15/28

10,000 11,362,900

New York State Dormitory Authority, RB,
State University Dormitory Facilities,
Series A, 5.25%, 7/01/29

5,000 5,452,350

Sales Tax Asset Receivable Corp., RB,
Series A (AMBAC), 5.00%, 10/15/32

12,000 12,391,080
36,475,530

Education 1.3%

New York State Dormitory Authority, RB,
New York University, Series A, 5.00%,

7/01/38 5,499 5,755,173

State 1.3%

New York State Dormitory Authority,

ERB, Series B, 5.75%, 3/15/36 5,000 5,682,950

Transportation 19.3%

Metropolitan Transportation Authority,
RB, Series A (NPFGC), 5.00%,

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| | | |
|----------------------------------------------------------------------------------------------------------|--------|-------------|
| 11/15/31 | 7,002 | 7,275,793 |
| Metropolitan Transportation Authority, Refunding RB, Series A (AGM): | | |
| 5.00%, 11/15/30 | 5,010 | 5,152,785 |
| 5.75%, 11/15/32 | 29,000 | 30,880,940 |
| New York State Thruway Authority, RB, Series G (AGM), 5.00%, 1/01/32 | 9,500 | 10,263,420 |
| New York State Thruway Authority, Refunding RB, Series H (AGM), 5.00%, 1/01/37 | 8,500 | 8,820,195 |
| Port Authority of New York & New Jersey, RB, Consolidated, 155th Series, AMT (AGM), 5.13%, 7/15/30 | 2,500 | 2,549,225 |
| Triborough Bridge & Tunnel Authority, Refunding RB (NPFGC): | | |
| 5.25%, 11/15/23 | 12,000 | 12,815,760 |
| 5.00%, 11/15/32 | 8,309 | 8,582,119 |
| | | 86,340,237 |
| Utilities 1.6% | | |
| New York City Municipal Water Finance Authority, RB: | | |
| Fiscal 2009, Series A, 5.75%, 6/15/40 | 4,004 | 4,541,024 |
| Series FF-2, 5.50%, 6/15/40 | 2,399 | 2,676,102 |
| | | 7,217,126 |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts | 31.6% | 141,471,016 |
| Total Long-Term Investments (Cost \$735,438,342) 167.0% | | 746,992,779 |

BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

MAY 31, 2010

Schedule of Investments (concluded)

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

(Percentages shown are based on Net Assets)

| | (000) | Value | Par | |
|---------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-----------|---------------|
| Short-Term Securities | | | | |
| New York | 0.1 % | | | |
| City of New York New York, GO, VRDN, Sub-Series A-6 (AGM Insurance, Dexia Credit Local SBPA), 0.28%, 6/01/10 (d) | | | \$ 375 | \$ 375,000 |
| Money Market Fund | 1.3% | | Shares | |
| CMA New York Municipal Money Fund, | | | | |
| | | 0.00% (e)(f) | 5,863,171 | 5,863,171 |
| Total Short-Term Securities | | | | |
| (Cost \$6,238,171) | 1.4% | 6,238,171 | | |
| Total Investments | | | | |
| (Cost \$741,676,512*) | 168.4% | | | 753,230,950 |
| Other Assets Less Liabilities | 2.1% | | | 9,566,775 |
| Liability for Trust Certificates, Including Interest | | | | |
| Expense and Fees Payable | (16.0)% | | | (71,752,964) |
| Preferred Shares, at Redemption Value | (54.5)% | | | (243,647,486) |
| Net Assets Applicable to Common Shares | 100.0% \$ | | | 447,397,275 |

* The cost and unrealized appreciation (depreciation) of investments as of

May 31, 2010, as computed for federal income tax purposes, were as

| | |
|-------------------------------|----------------|
| Aggregate follows: cost | \$ 670,583,493 |
| Gross unrealized appreciation | \$ 25,509,377 |
| Gross unrealized depreciation | (14,574,520) |
| Net unrealized appreciation | \$ 10,934,857 |

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

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

(c) 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.

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

| Affiliate | Shares Held at August 31, 2009 | Net Activity | Shares Held at May 31, 2010 | Income |
|-----------------------------------------|--------------------------------------|--------------|-----------------------------------|----------|
| CMA New York Municipal Money Fund | 5,049,821 | 813,350 | 5,863,171 | \$ 1,307 |

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

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

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

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

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

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

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

Investments in Securities

| Valuation Inputs | Level 1 | Level 2 | Level 3 | Total |
|---------------------------------------|---------|---------------|---------|----------------|
| Assets: | | | | |
| Long-Term Investments ¹ | | \$746,992,779 | | \$ 746,992,779 |
| Short-Term | | | | |

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| | | | |
|------------|--------------|---------------|----------------|
| Securities | \$ 5,863,171 | 375,000 | 6,238,171 |
| Total | \$ 5,863,171 | \$747,367,779 | \$ 753,230,950 |

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

6 BLACKROCK MUNIHOLDINGS NEW YORK INSURED FUND, INC.

MAY 31, 2010

Item 2 Controls and Procedures

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

By: /s/ Anne F. Ackerley

Anne F. Ackerley
Chief Executive Officer of
BlackRock MuniHoldings New York Insured Fund, Inc.

Date: July 23, 2010

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Anne F. Ackerley

Anne F. Ackerley
Chief Executive Officer (principal executive officer) of
BlackRock MuniHoldings New York Insured Fund, Inc.

Date: July 23, 2010

By: /s/ Neal J. Andrews

Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock MuniHoldings New York Insured Fund, Inc.

Date: July 23, 2010
