

BLACKROCK MUNIYIELD NEW JERSEY FUND INC

Form N-Q

December 22, 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 811-06570

Name of Fund: BlackRock MuniYield New Jersey Fund, Inc. (MYJ)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniYield New Jersey 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: 07/31/2012

Date of reporting period: 10/31/2011

Item 1 – Schedule of Investments

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Schedule of Investments October 31, 2011 (Unaudited)

BlackRock MuniYield New Jersey Fund, Inc. (MYJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey 128.7% | | |
| Corporate 3.5% | | |
| New Jersey EDA, Refunding RB, New Jersey American Water Co. Inc. Project, Series A, AMT, 5.70%, 10/01/39 | \$ 2,925 | \$ 3,061,656 |
| Salem County Utilities Authority, Refunding RB, Atlantic City Electric, Series A, 4.88%, 6/01/29 | 4,550 | 4,705,928 |
| | | 7,767,584 |
| County/City/Special District/School District 14.2% | | |
| City of Margate City New Jersey, New Jersey, GO, Improvement: 5.00%, 1/15/26 | 1,200 | 1,306,044 |
| 5.00%, 1/15/27 | 845 | 914,222 |
| City of Perth Amboy New Jersey, GO, CAB (AGM) (a): 5.00%, 7/01/33 | 1,575 | 1,573,929 |
| 5.00%, 7/01/34 | 1,925 | 1,920,784 |
| County of Hudson New Jersey, COP, Refunding (NPFGC), 6.25%, 12/01/16 | 1,500 | 1,704,645 |
| Essex County Improvement Authority, RB, Newark Project, Series A (AGM): 5.00%, 11/01/20 | 375 | 395,078 |
| 6.00%, 11/01/30 | 545 | 589,036 |
| Essex County Improvement Authority, Refunding RB, Project Consolidation (NPFGC): 5.50%, 10/01/28 | 2,700 | 3,154,221 |
| 5.50%, 10/01/29 | 5,085 | 5,904,295 |
| Garden State Preservation Trust, RB, Capital Appreciation, Series A (AGM), 5.11%, 11/01/28 (b) | 4,540 | 2,040,503 |
| Hudson County Improvement Authority, RB, Harrison Parking Facility Project, Series C (AGC), 5.38%, 1/01/44 | 4,800 | 5,145,648 |
| Middlesex County Improvement Authority, RB: Golf Course Projects, 5.25%, 6/01/22 | 1,455 | 1,590,519 |
| Senior Heldrich Center Hotel, Series A, 5.00%, 1/01/20 | 655 | 395,371 |
| Monmouth County Improvement Authority, RB, Government Loan (AMBAC): 5.00%, 12/01/15 | 5 | 5,009 |
| 5.00%, 12/01/16 | 5 | 5,008 |
| | | |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| County/City/Special District/School District (concluded) | | |
| Newark Housing Authority, RB, South Ward Police Facility (AGC): 5.75%, 12/01/30 | \$ 1,115 | \$ 1,211,593 |

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| | | |
|---|-------|------------|
| 6.75%, 12/01/38 | 2,670 | 3,112,553 |
| | | 30,968,458 |
| Education 18.3% | | |
| New Jersey EDA, RB, School Facilities Construction: | | |
| Series CC-2, 5.00%, 12/15/31 | 1,700 | 1,767,507 |
| Series CC-2, 5.00%, 12/15/32 | 1,300 | 1,346,904 |
| Series Y, 5.00%, 9/01/33 | 880 | 903,496 |
| New Jersey EDA, Refunding RB, Series GG, 5.25%, 9/01/27 | 3,000 | 3,226,590 |
| New Jersey Educational Facilities Authority, RB: | | |
| Georgian Court University, Series D, 5.25%, 7/01/37 | 1,000 | 1,005,760 |
| Kean University, Series A, 5.50%, 9/01/36 | 4,060 | 4,369,656 |
| Montclair State University, Series J, 5.25%, 7/01/38 | 1,140 | 1,196,738 |
| Rider University, Series A (Radian), 5.00%, 7/01/17 | 1,000 | 1,012,960 |
| Rider University, Series A (Radian), 5.25%, 7/01/34 | 1,450 | 1,449,884 |
| Rider University, Series C (Radian), 5.00%, 7/01/37 | 1,750 | 1,717,607 |
| New Jersey Educational Facilities Authority, Refunding RB: | | |
| College of New Jersey, Series D (AGM), 5.00%, 7/01/35 | 6,115 | 6,364,064 |
| New Jersey Institute of Technology, Series H, 5.00%, 7/01/31 | 1,250 | 1,300,288 |
| Rowan University, Series B (AGC), 5.00%, 7/01/24 | 1,800 | 1,958,112 |
| University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 | 1,300 | 1,548,898 |
| University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 | 1,625 | 1,888,721 |

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) |
| CAB | Capital Appreciation Bonds |
| COP | Certificates of Participation |
| EDA | Economic Development Authority |
| FGIC | Financial Guaranty Insurance Co. |
| GO | General Obligation Bonds |
| NPFGC | National Public Finance Guarantee Corp. |
| Radian | Radian Group, Inc. |
| RB | Revenue Bonds |
| S/F | Single-Family |

Schedule of Investments (continued)

BlackRock MuniYield New Jersey Fund, Inc. (MYJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Education (concluded) | | |
| New Jersey Higher Education Assistance Authority, Refunding RB, Series 1A: | | |
| 5.00%, 12/01/25 | \$ 1,035 | \$ 1,068,286 |
| 5.00%, 12/01/26 | 645 | 663,982 |
| 5.25%, 12/01/32 | 900 | 929,880 |
| New Jersey Higher Education Student Assistance Authority, RB, Series A, AMT, 5.75%, 12/01/29 | | |
| | 4,045 | 4,150,615 |
| Rutgers-State University of New Jersey, Refunding RB, Series F, 5.00%, 5/01/39 | | |
| | 2,000 | 2,120,520 |
| | | 39,990,468 |
| Health 19.6% | | |
| New Jersey EDA, RB: | | |
| CAB, Barnabas, Series A (NPFGC), 6.27%, 7/01/24 (b) | | |
| | 3,850 | 1,849,655 |
| Masonic Charity Foundation of New Jersey, 5.25%, 6/01/24 | | |
| | 1,425 | 1,452,859 |
| Masonic Charity Foundation of New Jersey, 5.25%, 6/01/32 | | |
| | 685 | 688,521 |
| New Jersey EDA, Refunding RB, First Mortgage, Winchester, Series A: | | |
| 5.75%, 11/01/24 | 2,500 | 2,486,000 |
| 5.80%, 11/01/31 | 1,000 | 985,350 |
| New Jersey Health Care Facilities Financing Authority, RB: | | |
| AHS Hospital Corp., 6.00%, 7/01/41 | | |
| | 2,435 | 2,658,703 |
| Childrens Specialized Hospital, Series A, 5.50%, 7/01/36 | | |
| | 1,540 | 1,473,811 |
| Hospital Asset Transformation Program, Series A, 5.25%, 10/01/38 | | |
| | 2,300 | 2,335,857 |
| Hunterdon Medical Center, Series A, 5.13%, 7/01/35 | | |
| | 1,950 | 1,901,562 |
| Meridian Health, Series I (AGC), 5.00%, 7/01/38 | | |
| | 985 | 998,869 |
| Meridian Health System Obligation Group (AGM), 5.25%, 7/01/29 | | |
| | 2,195 | 2,196,097 |
| Pascack Valley Hospital Association, 6.63%, 7/01/36 (c)(d) | | |
| | 1,845 | 18 |
| South Jersey Hospital, 5.00%, 7/01/36 | | |
| | 385 | 378,544 |
| Southern Ocean County Hospital (Radian), 5.13%, 7/01/31 | | |
| | 2,000 | 1,882,920 |

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| | | |
|---|----------------------|--------------|
| Virtua Health (AGC), 5.50%, 7/01/38 | 2,500 | 2,619,125 |
| New Jersey Health Care Facilities Financing Authority, Refunding RB: Atlantic City Medical Center, 6.25%, 7/01/17 (e) | 520 | 537,883 |
| | Par (000) | Value |
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Health (concluded) | | |
| New Jersey Health Care Facilities Financing Authority, Refunding RB (concluded): Atlantic City Medical System, 5.75%, 7/01/25 | \$ 520 | \$ 525,845 |
| Barnabas Health, Series A, 5.63%, 7/01/32 (f) | 1,090 | 1,086,610 |
| New Jersey Health Care Facilities Financing Authority, Refunding RB: Barnabas Health, Series A, 5.63%, 7/01/37 (f) | 3,030 | 3,007,366 |
| CAB, St. Barnabas Health, Series B, 5.89%, 7/01/30 (b) | 2,000 | 610,280 |
| CAB, St. Barnabas Health, Series B, 5.67%, 7/01/36 (b) | 500 | 99,435 |
| CAB, St. Barnabas Health, Series B, 5.17%, 7/01/37 (b) | 13,250 | 2,462,512 |
| Capital Health System Obligation Group, Series A, 5.75%, 7/01/23 | 1,650 | 1,782,347 |
| Meridian Health System Obligation Group (AGM), 5.38%, 7/01/24 | 2,250 | 2,252,475 |
| Robert Wood Johnson, 5.00%, 7/01/31 | 1,000 | 1,024,180 |
| South Jersey Hospital, 5.00%, 7/01/46 | 1,650 | 1,604,609 |
| St. Barnabas Health Care System, Series A, 5.00%, 7/01/29 | 4,155 | 3,962,416 |
| | | 42,863,849 |
| Housing 13.4% | | |
| New Jersey State Housing & Mortgage Finance Agency, RB: Capital Fund Program, Series A (AGM), 4.70%, 11/01/25 | 5,105 | 5,235,382 |
| Home Buyer, Series CC, AMT (NPFGC), 5.80%, 10/01/20 | 4,515 | 4,649,276 |
| S/F Housing Series CC, 5.00%, 10/01/34 | 3,455 | 3,519,125 |
| S/F Housing, Series U, AMT, 4.95%, 10/01/32 | 700 | 703,339 |
| S/F Housing, Series U, AMT, 5.00%, 10/01/37 | 1,000 | 1,003,160 |
| S/F Housing, Series X, AMT, 4.85%, 4/01/16 | 3,605 | 3,690,366 |
| S/F Housing, Series X, AMT, 5.05%, 4/01/18 | 600 | 629,916 |
| Series A, 4.75%, 11/01/29 | 2,305 | 2,333,628 |
| Series A, 6.50%, 10/01/38 | 1,365 | 1,481,011 |
| Series A, AMT (FGIC), 4.90%, 11/01/35 | 1,365 | 1,340,430 |

Schedule of Investments (continued)

BlackRock MuniYield New Jersey Fund, Inc. (MYJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Housing (concluded) | | |
| New Jersey State Housing & Mortgage Finance Agency, Refunding RB, S/F Housing, Series T, AMT, 4.65%, 10/01/32 | \$ 4,945 | \$ 4,855,248 |
| | | 29,440,881 |
| Other 1.3% | | |
| Newark Housing Authority, Refunding RB, Redevelopment Project (NPFGC), 4.38%, 1/01/37 | 2,875 | 2,829,977 |
| State 27.6% | | |
| Garden State Preservation Trust, RB (AGM): | | |
| CAB, Series B, 5.12%, 11/01/23 (b) | 6,860 | 4,166,833 |
| Election of 2005, Series A, 5.80%, 11/01/22 | 4,300 | 4,966,715 |
| New Jersey EDA, RB: Department Of Human Services Pooled, 5.00%, 7/01/12 | 220 | 225,059 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/24 | 1,415 | 1,558,976 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/25 | 2,000 | 2,183,860 |
| Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/33 | 14,000 | 14,496,580 |
| School Facilities Construction, Series L (AGM), 5.00%, 3/01/30 | 5,800 | 5,914,028 |
| School Facilities Construction, Series P, 5.00%, 9/01/15 | 3,000 | 3,331,620 |
| School Facilities Construction, Series P, 5.25%, 9/01/16 | 2,710 | 3,059,048 |
| School Facilities Construction, Series Z (AGC), 5.50%, 12/15/34 | 3,665 | 3,920,560 |
| New Jersey EDA, Refunding RB: New Jersey American Water Co. Inc. Project, Series B, AMT, 5.60%, 11/01/34 | 2,430 | 2,571,329 |
| School Facilities Construction, Series AA, 5.50%, 12/15/29 | 3,300 | 3,557,103 |
| New Jersey Transportation Trust Fund Authority, RB, CAB, Series C (AMBAC), 5.05%, 12/15/35 (b) | 4,140 | 959,900 |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System, CAB, Series A (AGC), 5.63%, 12/15/28 | 1,250 | 1,369,888 |
| New Jersey Transportation Trust Fund Authority, Refunding RB, | 5,865 | 6,805,746 |

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| | | |
|--|-------|------------|
| Transportation System, Series B (NPFGC), 5.50%, 12/15/21 | | |
| State of New Jersey, COP, Equipment Lease Purchase, Series A, 5.25%, 6/15/28 | 1,100 | 1,147,630 |
| | | 60,234,875 |

| | Par (000) | Value |
|---|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (continued) | | |
| Tobacco 1.0% | | |
| Tobacco Settlement Financing Corporation of New Jersey, Asset- Backed Revenue Refunding Bonds, Series 1A, 5.00%, 6/01/29 | \$ 2,900 | \$ 2,174,971 |
| Transportation 25.5% | | |
| Delaware River Port Authority, RB: Port District Project, Series B (AGM), 5.70%, 1/01/22 | 1,000 | 1,001,850 |
| Series D, 5.00%, 1/01/40 | 1,535 | 1,580,528 |
| New Jersey State Turnpike Authority, RB: Growth & Income Securities, Series B (AMBAC), 5.15%, 1/01/15 (a) | 4,870 | 4,224,725 |
| Series E, 5.25%, 1/01/40 | 5,475 | 5,764,956 |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A: 6.00%, 6/15/35 | 5,455 | 6,262,613 |
| 5.88%, 12/15/38 | 3,650 | 4,025,147 |
| 6.00%, 12/15/38 | 1,950 | 2,167,835 |
| 5.50%, 6/15/41 | 2,390 | 2,580,674 |
| (AGC), 5.50%, 12/15/38 | 1,000 | 1,068,470 |
| New Jersey Transportation Trust Fund Authority, Refunding RB, Transportation System, Series B (AMBAC), 5.25%, 12/15/23 | 5,000 | 5,674,850 |
| Port Authority of New York & New Jersey, RB: Consolidated, 93rd Series, 6.13%, 6/01/94 | 5,000 | 5,874,100 |
| JFK International Air Terminal, 6.00%, 12/01/42 | 2,700 | 2,823,444 |
| Port Authority of New York & New Jersey, Refunding RB, Consolidated 152nd Series, AMT, 5.75%, 11/01/30 | 3,300 | 3,631,320 |
| South Jersey Port Corp., RB: 4.75%, 1/01/18 | 4,280 | 4,372,020 |
| 4.85%, 1/01/19 | 2,485 | 2,534,352 |
| 5.00%, 1/01/20 | 2,000 | 2,036,900 |
| | | 55,623,784 |
| Utilities 4.3% | | |
| New Jersey EDA, Refunding RB, United Water of New Jersey Inc., Series B (AMBAC), 4.50%, 11/01/25 | 4,500 | 4,630,275 |
| Rahway Valley Sewerage Authority, RB, CAB, Series A (NPFGC), 4.87%, 9/01/31 (b) | 6,000 | 1,926,060 |
| Union County Utilities Authority, Refunding RB, Senior Lease, Ogden Martin, Series A, AMT (AMBAC): | | |

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5.38%, 6/01/17

1,585

1,587,235

BLACKROCK MUNIYIELD NEW JERSEY FUND, INC.

OCTOBER 31, 2011

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Schedule of Investments (continued)

BlackRock MuniYield New Jersey Fund, Inc. (MYJ)
(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|--|--------------|--------------|
| Municipal Bonds | | |
| New Jersey (concluded) | | |
| Utilities (concluded) | | |
| Union County Utilities Authority, Refunding RB, Senior Lease, Ogden Martin, Series A, AMT (AMBAC) (concluded): | | |
| 5.38%, 6/01/18 | \$ 1,175 | \$ 1,176,375 |
| | | 9,319,945 |
| Total Municipal Bonds in New Jersey | | 281,214,792 |
| Puerto Rico 8.9% | | |
| County/City/Special District/School District 6.5% | | |
| Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A: | | |
| 5.75%, 8/01/37 | 6,000 | 6,289,620 |
| 6.00%, 8/01/42 | 4,000 | 4,312,640 |
| Puerto Rico Sales Tax Financing Corp., Refunding RB, First Sub-Series C, 6.00%, 8/01/39 | 3,320 | 3,606,582 |
| | | 14,208,842 |
| Transportation 1.9% | | |
| Puerto Rico Highway & Transportation Authority, Refunding RB: | | |
| Series AA1, 4.95%, 7/01/26 | 1,000 | 1,024,511 |
| Series CC (AGM), 5.50%, 7/01/30 | 2,000 | 2,173,780 |
| Series CC (AGC), 5.50%, 7/01/31 | 895 | 965,768 |
| | | 4,164,059 |
| Utilities 0.5% | | |
| Puerto Rico Electric Power Authority, RB, Series WW, 5.50%, 7/01/38 | 1,000 | 1,020,590 |
| Total Municipal Bonds in Puerto Rico | | 19,393,491 |
| US Virgin Islands 1.5% | | |
| Corporate 1.5% | | |
| United States Virgin Islands, Government Refinery Facility, RB, Senior Secured, Hovensa Coker Project, 6.50%, 7/01/21 | 3,500 | 3,341,555 |
| Total Municipal Bonds in the US Virgin Islands | | 3,341,555 |
| Total Municipal Bonds 139.1% | | 303,949,838 |
| Municipal Bonds Transferred to Tender | | |
| Option Bond (TOB) Trusts (g) | | |
| New Jersey 8.7% | | |
| Education 1.8% | | |
| New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%, 12/15/34 | 3,600 | 3,964,896 |

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| Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (g) New Jersey (concluded) | Par (000) | Value |
|--|---------------|----------------|
| State 3.1% | | |
| Garden State Preservation Trust, RB, Election of 2005, Series A (AGM), 5.75%, 11/01/28 | \$ 5,460 | \$ 6,782,685 |
| Transportation 3.8% | | |
| New Jersey Transportation Trust Fund Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32 | 4,100 | 4,270,765 |
| Port Authority of New York & New Jersey, Refunding RB, Consolidated, 152nd Series, AMT, 5.25%, 11/01/35 | 3,764 | 3,949,429 |
| | | 8,220,194 |
| Total Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts 8.7% | | 18,967,775 |
| Total Long-Term Investments (Cost \$311,970,388) 147.8% | | 322,917,613 |
| Short-Term Securities | Shares | |
| BIF New Jersey Municipal Money Fund, 0.00% (h)(i) | 8,099,091 | 8,099,091 |
| Total Short-Term Investments (Cost - \$8,099,091) 3.7% | | 8,099,091 |
| Total Investments (Cost - \$320,069,479*) 151.5% | | 331,016,704 |
| Other Assets Less Liabilities 0.1% | | 74,060 |
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (4.8)% | | (10,462,586) |
| VRDP Shares, at Liquidation Value (46.8)% | | (102,200,000) |
| Net Assets Applicable to Common Shares 100.0% | | \$ 218,428,178 |

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

| | |
|-------------------------------|----------------|
| Aggregate cost | \$ 309,754,706 |
| Gross unrealized appreciation | \$ 14,612,899 |
| Gross unrealized depreciation | (3,804,602) |
| Net unrealized appreciation | \$ 10,808,297 |

- (a) 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.
- (b) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (c) Issuer filed for bankruptcy and/or is in default of interest payments.
- (d) Non-income producing security.
- (e) 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.

Schedule of Investments (concluded)

BlackRock MuniYield New Jersey Fund, Inc. (MYJ)

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

| Counterparty | Value | Unrealized Appreciation |
|----------------|--------------|-------------------------|
| JPMorgan Chase | \$ 4,093,976 | \$ 34,639 |

(g) 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.

(h) 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 July 31, 2011 | Net Activity | Shares Held at October 31, 2011 | Income |
|-------------------------------------|------------------------------|--------------|---------------------------------|--------|
| BIF New Jersey Municipal Money Fund | 13,176,800 | (5,077,709) | 8,099,091 | \$ 62 |

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

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.

Fair Value Measurements - Various inputs are used in determining the fair value of investments. These inputs 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

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)

Changes in valuation techniques may result in transfers in or out of an assigned level within the disclosure hierarchy. The categorization of a value determined for investments is based on the pricing transparency of the investment and does not necessarily correspond to the Fund's perceived risk of 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 annual report.

The following table summarizes the inputs used as of October 31, 2011 in determining the fair valuation of the Fund's investments:

| Valuation Inputs | Level 1 | Level 2 | Level 3 | Total |
|------------------|---------|---------|---------|-------|
|------------------|---------|---------|---------|-------|

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Assets:

Investments

| | | | | | | |
|------------------------------------|----|-----------|-------------|-------------|----|-------------|
| Long-Term Investments ¹ | | \$ | 322,917,613 | | \$ | 322,917,613 |
| Short-Term Securities | \$ | 8,099,091 | | | | 8,099,091 |
| Total | \$ | 8,099,091 | \$ | 322,917,613 | \$ | 331,016,704 |

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

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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 MuniYield New Jersey Fund, Inc.

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

Date: December 21, 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 MuniYield New Jersey Fund, Inc.

Date: December 21, 2011

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

Date: December 21, 2011

