

BLACKROCK MUNIYIELD NEW JERSEY FUND, INC.  
Form N-Q  
June 22, 2015

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 52<sup>nd</sup> Street, New York, NY 10055

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 07/31/2015

Date of reporting period: 04/30/2015

Item 1 – Schedule of Investments

Schedule of Investments April 30, 2015 (Unaudited) **BlackRock MuniYield New Jersey Fund, Inc. (MYJ)**  
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
New Jersey — 129.0%		
Corporate — 10.7%		
County of Salem New Jersey Pollution Control Financing Authority, Refunding RB, Atlantic City Electric, Series A, 4.88%, 6/01/29	\$4,550	\$4,996,036
Middlesex County Improvement Authority, RB, Senior Heldrich Center Hotel, Series A, 5.00%, 1/01/20	655	517,005
New Jersey EDA, RB, Continental Airlines, Inc. Project, AMT:		
Series A, 5.63%, 11/15/30	1,730	1,975,539
Series B, 5.63%, 11/15/30	485	544,893
New Jersey EDA, Refunding RB:		
New Jersey American Water Co., Inc. Project, Series A, AMT, 5.70%, 10/01/39	7,900	9,055,691
New Jersey American Water Co., Inc. Project, Series B, AMT, 5.60%, 11/01/34	2,430	2,744,369
United Water of New Jersey, Inc., Series B (AMBAC), 4.50%, 11/01/25	4,500	4,908,330
		24,741,863
County/City/Special District/School District — 17.2%		
Casino Reinvestment Development Authority, Refunding RB:		
5.25%, 11/01/39	2,280	2,420,083
5.25%, 11/01/44	5,000	5,335,200
City of Margate New Jersey, GO, Refunding, Improvement:		
5.00%, 1/15/26	1,200	1,343,400
5.00%, 1/15/27	845	939,944
City of Perth Amboy, GO, Refunding(AGM):		
5.00%, 7/01/17 (a)	820	896,154
5.00%, 7/01/33	755	786,136
County of Essex New Jersey Improvement Authority, Refunding RB, Project Consolidation (NPFGC):		
5.50%, 10/01/28	2,700	3,447,981
5.50%, 10/01/29	5,085	6,522,682
County of Gloucester New Jersey Improvement Authority, RB, County Guaranteed Loan—County Capital Program, 5.00%, 4/01/38	1,000	1,089,040

Municipal Bonds	Par (000)	Value
New Jersey (continued)		
County/City/Special District/School District (concluded)		
County of Hudson New Jersey, COP, Refunding, (NPFGC), 6.25%, 12/01/16	\$1,500	\$1,614,300
County of Hudson New Jersey Improvement Authority, RB, Harrison Parking Facility Project, Series C (AGC), 5.38%, 1/01/44	4,800	5,330,688
County of Union New Jersey Improvement Authority, LRB, Guaranteed Lease, Family Court Building Project, 5.00%, 5/01/42	1,650	1,841,582
County of Union New Jersey Utilities Authority, Refunding RB, Series A:		
Resources Recovery Facility, Covanta Union, Inc., AMT, 5.25%, 12/01/31	670	731,412

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Solid Waste System, County Deficiency Agreement, 5.00%, 6/15/41	4,115	4,586,867
Monmouth County Improvement Authority, Refunding RB, Government Loan (AMBAC):		
5.00%, 12/01/15	5	5,018
5.00%, 12/01/16	5	5,016
Monroe Township Board of Middlesex Education, GO, Refunding, 5.00%, 3/01/38	1,625	1,848,031
New Jersey EDA, RB, The Goethals Bridge Replacement Project, AMT (AGM), 5.00%, 1/01/31	1,000	1,112,470
		39,856,004
Education — 27.9%		
New Jersey EDA, RB:		
MSU Student Housing Project Provide, 5.75%, 6/01/31	1,000	1,120,780
MSU Student Housing Project Provide, 5.88%, 6/01/42	1,500	1,676,085
Series A, 6.20%, 10/01/44	235	242,424
Series A, 6.30%, 10/01/49	375	386,768
The Team Academy Charter School Project, 6.00%, 10/01/33	2,835	3,239,016
New Jersey EDA, Refunding RB, Series A (b):		
5.88%, 8/01/44	780	805,771
6.00%, 8/01/49	555	572,227

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Schedule of Investments (continued) **BlackRock MuniYield New Jersey Fund, Inc. (MYJ)**  
**(Percentages shown are based on Net Assets)**

Municipal Bonds	Par (000)	Value
New Jersey (continued)		
Education (continued)		
New Jersey Educational Facilities Authority, RB:		
Higher Educational Capital Improvement Fund, Series A, 5.00%, 9/01/32	\$3,925	\$4,159,009
Montclair State University, Series J, 5.25%, 7/01/38	1,140	1,256,725
New Jersey Educational Facilities Authority, Refunding RB:		
College of New Jersey, Series D (AGM), 5.00%, 7/01/35	6,115	6,718,122
Georgian Court University, Series D, 5.25%, 7/01/37	1,000	1,063,370
Kean University, Series A, 5.50%, 9/01/36	4,500	5,125,455
Montclair State University, Series A, 5.00%, 7/01/44	6,790	7,628,022
New Jersey Institute of Technology, Series H, 5.00%, 7/01/31	1,250	1,405,788
Ramapo College, Series B, 5.00%, 7/01/42	340	371,175
Rider University, Series A, 5.00%, 7/01/32	1,000	1,072,210
Rowan University, Series B (AGC), 5.00%, 7/01/24	1,800	2,000,538
Seton Hall University, Series D, 5.00%, 7/01/38	395	435,436
University of Medicine & Dentistry, Series B, 7.13%, 6/01/19 (a)	1,300	1,603,589
University of Medicine & Dentistry, Series B, 7.50%, 6/01/19 (a)	1,625	2,028,683
New Jersey Higher Education Student Assistance Authority, Refunding RB:		
Series 1, AMT, 5.75%, 12/01/29	4,045	4,458,520
Series 1A, 5.00%, 12/01/25	840	887,972
Series 1A, 5.00%, 12/01/26	530	559,086
Series 1A, 5.25%, 12/01/32	900	971,316
New Jersey Institute of Technology, RB, Series A:		
5.00%, 7/01/42	3,040	3,377,683
5.00%, 7/01/45	4,435	4,947,597
Municipal Bonds	Par (000)	Value
New Jersey (continued)		
Education (concluded)		
Rutgers - The State University of New Jersey, Refunding RB, Series L, 5.00%, 5/01/43	\$5,870	\$6,597,586
		64,710,953
Health — 10.4%		
County of Camden New Jersey Improvement Authority, Refunding RB, 5.00%, 2/15/34	590	643,383
New Jersey Health Care Facilities Financing Authority, RB:		
Children's Specialized Hospital, Series A, 5.50%, 7/01/36	1,540	1,553,475
Hunterdon Medical Center, Series A, 5.13%, 7/01/16 (a)	1,950	2,058,791
Meridian Health System Obligated Group, Series I (AGC), 5.00%, 7/01/38	945	1,008,485
Robert Wood Johnson University Hospital, Series A, 5.50%, 7/01/43	1,420	1,640,938
Virtua Health, Series A (AGC), 5.50%, 7/01/38	2,500	2,787,775

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New Jersey Health Care Facilities Financing Authority, Refunding RB:

AHS Hospital Corp., 6.00%, 7/01/41	2,435	2,913,210
Meridian Health System Obligated Group, 5.00%, 7/01/25	1,000	1,140,940
Robert Wood Johnson University Hospital, 5.00%, 7/01/31	1,000	1,098,850
South Jersey Hospital, 5.00%, 7/01/36	385	396,419
St. Barnabas Health Care System, Series A, 5.00%, 7/01/29	4,150	4,307,036
St. Barnabas Health Care System, Series A, 5.63%, 7/01/32	1,090	1,251,331

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Schedule of Investments (continued) **BlackRock MuniYield New Jersey Fund, Inc. (MYJ)**  
**(Percentages shown are based on Net Assets)**

Municipal Bonds	Par (000)	Value
New Jersey (continued)		
Health (concluded)		
New Jersey Health Care Facilities Financing Authority, Refunding RB (concluded):		
St. Barnabas Health Care System, Series A, 5.63%, 7/01/37	\$3,030	\$3,441,898
		24,242,531
Housing — 3.1%		
New Jersey Housing & Mortgage Finance Agency, RB:		
M/F Housing, Series A, 4.75%, 11/01/29	2,305	2,408,425
S/F Housing, Series AA, 6.50%, 10/01/38	235	243,991
S/F Housing, Series CC, 5.00%, 10/01/34	1,795	1,875,362
S/F Housing, Series U, AMT, 4.95%, 10/01/32	260	264,753
S/F Housing, Series U, AMT, 5.00%, 10/01/37	265	268,734
Newark Housing Authority, RB, South Ward Police Facility (AGC), 6.75%, 12/01/38	1,750	2,083,358
		7,144,623
State — 18.2%		
Garden State Preservation Trust, RB, CAB, Series B (AGM) (c):		
0.00%, 11/01/23	1,460	1,187,929
0.00%, 11/01/28	4,540	2,988,864
New Jersey EDA, RB:		
Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/25	2,000	2,374,480
Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/33	9,090	9,257,256
School Facilities Construction (AGC), 5.50%, 12/15/18 (a)	2,345	2,706,083
School Facilities Construction (AGC), 5.50%, 12/15/34	1,320	1,494,385
School Facilities Construction, Series CC-2, 5.00%, 12/15/31	1,700	1,791,681
School Facilities Construction, Series CC-2, 5.00%, 12/15/32	1,300	1,380,678
School Facilities Construction, Series Y, 5.00%, 9/01/33	880	941,327
Municipal Bonds	Par (000)	Value
New Jersey (continued)		
State (concluded)		
New Jersey EDA, Refunding RB:		
Lions Gate Project, 5.00%, 1/01/34	\$500	\$517,390
Cigarette Tax, 5.00%, 6/15/26	440	488,396
Cigarette Tax, 5.00%, 6/15/28	720	787,471
Cigarette Tax, 5.00%, 6/15/29	1,760	1,915,883
Lions Gate Project, 5.25%, 1/01/44	315	328,454
School Facilities Construction, Series AA, 5.50%, 12/15/29	3,000	3,277,890
School Facilities Construction, Series AA, 5.25%, 12/15/33	1,000	1,062,680

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School Facilities Construction, Series GG, 5.25%, 9/01/27	3,000	3,237,540
New Jersey Health Care Facilities Financing Authority, RB, Hospital Asset Transformation Program, Series A, 5.25%, 10/01/38	2,300	2,475,467
State of New Jersey, COP, Equipment Lease Purchase, Series A, 5.25%, 6/15/28	1,100	1,225,818
State of New Jersey, GO, 5.00%, 6/01/28	2,425	2,773,763
		42,213,435
Transportation — 40.1%		
Delaware River Port Authority of Pennsylvania & New Jersey, RB: 5.00%, 1/01/40	2,620	2,940,714
Series D, 5.00%, 1/01/40	1,535	1,694,824
New Jersey EDA, RB, The Goethals Bridge Replacement Project, AMT, 5.38%, 1/01/43	8,420	9,312,015
New Jersey State Turnpike Authority, RB:		
Growth & Income Securities, Series B (AMBAC), 5.15%, 1/01/35	4,870	5,159,375
Series A, 5.00%, 1/01/38	10,750	11,864,452
Series A, 5.00%, 1/01/43	610	669,981
Series E, 5.25%, 1/01/40	2,525	2,795,932
New Jersey State Turnpike Authority, Refunding RB, Series A, 5.00%, 1/01/35	1,000	1,104,760

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Schedule of Investments (continued) **BlackRock MuniYield New Jersey Fund, Inc. (MYJ)**  
**(Percentages shown are based on Net Assets)**

Municipal Bonds	Par (000)	Value
New Jersey (concluded)		
Transportation (concluded)		
New Jersey Transportation Trust Fund Authority, RB:		
CAB, Transportation System, Series C (AMBAC), 0.00%, 12/15/35 (c)	\$4,140	\$1,419,275
Transportation Program, Series AA, 5.25%, 6/15/33	5,935	6,351,518
Transportation Program, Series AA, 5.00%, 6/15/38	1,790	1,867,185
Transportation System, 6.00%, 12/15/38	1,950	2,221,811
Transportation System, Series A, 6.00%, 6/15/35	6,030	7,251,196
Transportation System, Series A, 5.88%, 12/15/38	3,650	4,096,614
Transportation System, Series A, 5.50%, 6/15/41	5,500	6,025,250
Transportation System, Series A (AGC), 5.50%, 12/15/38	1,000	1,137,400
Transportation System, Series A (AGC), 5.63%, 12/15/28	1,250	1,439,375
Transportation System, Series AA, 5.50%, 6/15/39	5,520	6,009,403
Port Authority of New York & New Jersey, ARB:		
Consolidated, 169th Series, 5.00%, 10/15/41	250	268,813
Consolidated, 93rd Series, 6.13%, 6/01/94	5,000	6,009,500
JFK International Air Terminal, Series 8, 6.00%, 12/01/42	2,700	3,175,902
Port Authority of New York & New Jersey, Refunding ARB, Consolidated:		
152nd Series, AMT, 5.75%, 11/01/30	3,300	3,698,970
152nd Series, AMT, 5.25%, 11/01/35	240	262,750
166th Series, 5.25%, 7/15/36	4,000	4,511,280
172nd Series, AMT, 5.00%, 10/01/34	1,500	1,633,320
		92,921,615
Utilities — 1.4%		
Rahway Valley Sewerage Authority, RB, CAB, Series A (NPFGC), 0.00%, 9/01/31 (c)	6,000	3,254,460
<b>Total Municipal Bonds — 129.0%</b>		<b>299,085,484</b>

Municipal Bonds		
Transferred to	Par	Value
Tender Option Bond	(000)	
Trusts (d)		
New Jersey — 29.5%		
County/City/Special District/School District — 6.0%		
County of Union	\$12,820	\$13,995,081
New Jersey Utilities Authority, Refunding LRB, Resource Recovery Facility, Covanta Union, Inc.,		

Series A, AMT, 5.25%, 12/01/31 Education — 1.0% Rutgers - The State University of New Jersey, RB, Series F, 5.00%, 5/01/39 State — 7.1% Garden State Preservation Trust, RB, Election of 2005, Series A (AGM), 5.75%, 11/01/28 New Jersey EDA, RB, School Facilities Construction (AGC): 6.00%, 12/15/34 (a)	2,009	2,249,351
6.00%, 12/15/34	5,460	6,773,949
New Jersey EDA, Refunding RB, 5.00%, 3/01/29 (e)	1,185	1,406,061
	2,415	2,763,261
	5,230	5,560,120