

BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

Form N-Q

September 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: 811-21348

Name of Fund: BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock Muni

Intermediate Duration 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: 04/30/2016

Date of reporting period: 07/31/2015

Item 1 Schedule of Investments

Schedule of Investments July 31, 2015 (Unaudited)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
Alabama 2.9%		
City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children's Hospital (AGC), 6.00%, 6/01/34	\$ 4,615	\$ 5,287,267
County of Jefferson Alabama, RB, Limited Obligation School, Series A:		
5.50%, 1/01/21	5,500	5,541,250
5.25%, 1/01/23	6,500	6,548,750
		17,377,267
Arizona 4.1%		
Arizona Board of Regents, University of Arizona, RB, 5.00%, 8/01/28	2,000	2,280,460
Arizona Health Facilities Authority, Refunding RB, Phoenix Children's Hospital, Series A, 5.00%, 2/01/30	2,685	2,865,835
City of Phoenix Arizona IDA, RB, Facility, Legacy Traditional Schools Project, Series A, 5.75%, 7/01/24 (a)	750	805,658
City of Tucson Arizona, COP, Refunding (AGC), 4.00%, 7/01/20	2,325	2,578,541
County of Maricopa Arizona IDA, RB, Arizona Charter School Project 1, Series A, 6.63%, 7/01/20	110	107,500
County of Pima Arizona IDA, RB, Arizona Charter Schools Project, Series K, 6.38%, 7/01/31	895	901,390
County of Pinal Arizona Electric District No. 3, Refunding RB, 5.00%, 7/01/25	1,600	1,791,616
Glendale Union School District No. 205, GO, Series C:		
5.00%, 7/01/24	1,945	2,294,555
5.00%, 7/01/27	500	573,220
Phoenix-Mesa Gateway Airport Authority, RB, Mesa Project, AMT:		
5.00%, 7/01/27	700	786,156
5.00%, 7/01/32	1,925	2,102,196
Salt River Project Agricultural Improvement & Power District, RB, Series A, 5.00%, 1/01/25	4,000	4,388,120
Scottsdale IDA, Refunding RB, Scottsdale Healthcare, Series C (AGM), 5.00%, 9/01/35	2,050	2,252,069
	Par	
Municipal Bonds	(000)	Value
Arizona (concluded)		
State of Arizona, COP, Department of Administration, Series A (AGM), 4.25%, 10/01/23	\$ 1,000	\$ 1,073,530
		24,800,846
Arkansas 1.1%		
Arkansas State University, RB, 5.00%, 12/01/33	480	541,992
City of Benton, RB:		
5.00%, 6/01/28	600	688,434
5.00%, 6/01/29	1,055	1,204,430
University of Arkansas, Refunding RB:		
5.00%, 3/01/31	2,315	2,683,455
5.00%, 3/01/34	1,270	1,456,233
		6,574,544
California 3.5%		
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 5.00%, 8/15/22	2,135	2,476,429
California Pollution Control Financing Authority, RB, Mandatory Put Bonds, Republic Services, Inc. Project, Series B, AMT, 5.25%, 6/01/23 (b)	605	648,016
California Pollution Control Financing Authority, Refunding RB, Pacific Gas, Series C, AMT (NPFGC), 4.75%, 12/01/23	5,000	5,258,000
City of San Jose California, Refunding ARB, Series A-1, AMT, 5.00%, 3/01/25	2,000	2,218,700
State of California, GO:		
5.50%, 4/01/28	15	15,066
5.00%, 11/01/32	2,000	2,166,780
Various Purposes, 5.75%, 4/01/31	7,000	8,122,590
		20,905,581
Colorado 0.9%		
Denver Urban Renewal Authority, Refunding, Tax Allocation Bond, Stapleton, Senior-Series A-1, 5.00%, 12/01/23	2,500	2,898,000

BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

JULY 31, 2015

1

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
Colorado (concluded)		
University of Northern Colorado, Refunding RB, Series A, 5.00%, 6/01/31	\$ 2,000	\$ 2,306,620
		5,204,620
Connecticut 2.3%		
Connecticut State Development Authority, RB, Learjet, Inc. Project, AMT, 7.95%, 4/01/26	1,160	1,171,647
Connecticut State Health & Educational Facility Authority, Refunding RB, Lawrence & Memorial Hospital, Series F, 5.00%, 7/01/31	4,530	4,915,367
State of Connecticut, GO, Series B, 5.00%, 4/15/31	6,990	7,887,446
		13,974,460
Florida 5.9%		
County of Broward Florida School Board, COP, Refunding, Series A (AGM), 5.00%, 7/01/24	10,000	11,331,600
County of Highlands Florida Health Facilities Authority, Refunding RB, Adventis Health, Series G, 5.13%, 11/15/16 (c)	35	37,076
County of Lee Florida, Refunding ARB, Series A, AMT: 5.50%, 10/01/23	1,000	1,171,000
(AGM), 5.00%, 10/01/27	1,635	1,845,473
County of Miami-Dade Florida, RB, AMT, Series B: 6.00%, 10/01/28	3,470	4,214,697
6.00%, 10/01/29	3,480	4,225,451
County of Miami-Dade Florida Transit System Sales Surtax Revenue, Refunding RB, 5.00%, 7/01/32	1,500	1,679,130
County of Miami-Dade Florida Water & Sewer System Revenue, Refunding RB, Series C (BHAC), 5.00%, 10/01/18 (c)	8,000	9,006,880
Midtown Miami Community Development District, Refunding, Special Assessment Bonds, Series A, 4.25%, 5/01/24	1,835	1,940,402
	Par	
Municipal Bonds	(000)	Value
Florida (concluded)		
Sterling Hill Community Development District, Refunding RB, Special Assessment Bonds, Series B, 5.50%, 11/01/10 (d)(e)	\$ 155	\$ 93,005
		35,544,714
Georgia 3.1%		
City of Atlanta Georgia Water & Wastewater Revenue RB, Refunding RB, 5.00%, 11/01/32	10,000	11,542,200
Fulton County Development Authority, Refunding RB, Robert Woodruff, Series B, 5.25%, 3/15/24	3,000	3,320,460
Medical Center Hospital Authority, Refunding RB, Columbus Regional Healthcare (AGM): 4.00%, 8/01/23	1,500	1,578,255
4.13%, 8/01/24	2,000	2,103,120
		18,544,035
Guam 0.4%		
Territory of Guam, RB, Section 30, Series A, 5.38%, 12/01/24	2,100	2,323,419
Hawaii 0.9%		
State of Hawaii Airports System, Refunding ARB, Series A, 5.25%, 7/01/29	5,000	5,715,700
Illinois 16.0%		
City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.50%, 1/01/32	1,500	1,665,465
City of Chicago Illinois Midway International Airport, Refunding RB, AMT, Series A, 5.00%, 1/01/32	5,000	5,372,650
City of Chicago Illinois O'Hare International Airport, Refunding GARB, AMT: Series C, 5.25%, 1/01/28	1,350	1,484,595
Series C, 5.25%, 1/01/29	3,020	3,298,565
Senior Lien, Series A, 5.00%, 1/01/23	13,000	14,754,090
City of Chicago Illinois Transit Authority, RB, 5.25%, 12/01/31	3,700	3,958,445

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

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	Par	
	(000)	Value
Municipal Bonds		
Illinois (concluded)		
Madison-Macoupin Etc. Counties Community College District No. 536, GO, Refunding, Lewis & Clark Community College:		
5.00%, 5/01/30	\$ 475	\$ 528,072
5.00%, 5/01/31	500	554,880
5.00%, 5/01/32	500	557,545
McHenry County Conservation District, GO, 5.13%, 2/01/17 (c)	12,695	13,560,672
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	3,500	4,042,745
6.25%, 6/01/24	12,750	13,357,155
State of Illinois, GO:		
5.25%, 2/01/30	5,000	5,237,250
5.00%, 5/01/30	10,000	10,306,600
State of Illinois Toll Highway Authority, RB, Series A, 5.00%, 1/01/34	9,140	10,097,598
Village of Hodgkins Illinois, RB, MBM Project, AMT, 5.90%, 11/01/17	6,000	6,009,840
Village of Wheeling Illinois, Tax Allocation Bonds, North Milwaukee/Lake-Cook TIF Project, 6.00%, 1/01/25	1,290	1,290,425
		96,076,592
Indiana 4.1%		
City of Whiting Indiana, RB, BP Products North America, Inc. Project, 5.25%, 1/01/21	4,800	5,562,240
County of Jasper Indiana, Refunding RB, Northern Indiana Public Service Co., Series C (NPFGC), 5.85%, 4/01/19	2,000	2,266,480
Indiana Finance Authority, RB, Wastewater, 1st Lien, Series A, 5.25%, 10/01/31	10,000	11,554,900
Indiana Finance Authority, Refunding RB, US Steel Corp. Project, 6.00%, 12/01/19	5,000	5,544,950
		24,928,570
Iowa 1.0%		
Iowa Higher Education Loan Authority, RB, Private College Facility:		
5.25%, 4/01/23	695	789,680
5.25%, 4/01/24	730	837,821
5.25%, 4/01/25	520	592,015
5.25%, 4/01/26	360	406,516
	Par	
Municipal Bonds	(000)	Value
Iowa (concluded)		
Iowa Higher Education Loan Authority, Refunding RB, Private College Facility:		
5.00%, 9/01/22	\$ 2,315	\$ 2,410,725
Upper Iowa University Project, 5.00%, 9/01/20	1,000	1,064,950
		6,101,707
Kansas 1.4%		
Kansas Development Finance Authority, Refunding RB, Adventist Health System/Sunbelt Obligated Group, Series C, 5.00%, 11/15/23	1,500	1,683,900
Seward County Unified School District No. 480 Liberal, GO, Refunding, 5.00%, 9/01/33	6,000	6,663,420
		8,347,320
Kentucky 1.5%		
State of Kentucky Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%, 2/01/24	8,000	9,027,120
Louisiana 6.3%		
City of Bossier City Louisiana Utilities, Refunding RB, 5.00%, 10/01/32	2,000	2,277,140
City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring, Series A-2 (AGC), 6.00%, 1/01/23	850	965,957
Jefferson Parish Hospital Service District No. 1, Refunding RB, West Jefferson Medical Center, Series A (AGM), 5.50%, 1/01/26	3,000	3,430,350

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Louisiana Local Government Environmental Facilities & Community Development Authority,

Refunding RB:

5.00%, 11/01/32	7,000	7,981,610
BRCC Facilities Corp. Project, 5.00%, 12/01/27	3,445	3,853,095
BRCC Facilities Corp. Project, 5.00%, 12/01/28	3,715	4,136,913
Louisiana Public Facilities Authority, Refunding RB, Entergy Gulf States Louisiana LLC Project, Series A, 5.00%, 9/01/28	2,000	2,007,500

BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

JULY 31, 2015

3

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
Louisiana (concluded)		
New Orleans Aviation Board, RB, Series A:		
5.00%, 1/01/31	\$ 855	\$ 964,423
5.00%, 1/01/32	1,000	1,124,550
5.00%, 1/01/33	1,000	1,122,840
State of Louisiana Gasoline & Fuels Tax Revenue, Refunding RB, 4.00%, 5/01/34	5,750	5,977,412
Terrebonne Levee & Conservation District, RB, Sales Tax, 5.00%, 7/01/28	3,660	4,078,155
		37,919,945
Maine 0.3%		
Portland Housing Development Corp., Refunding RB, Senior Living, Retirement Facilities, Series A, 6.00%, 2/01/34	1,965	1,977,124
Maryland 0.8%		
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.13%, 6/01/20	1,750	1,910,738
Maryland Health & Higher Educational Facilities Authority, RB, Johns Hopkins Health System, Series B, 5.00%, 7/01/33	1,140	1,264,146
Maryland Health & Higher Educational Facilities Authority, Refunding RB, 5.00%, 7/01/33	1,500	1,642,140
		4,817,024
Massachusetts 1.5%		
Massachusetts Development Finance Agency, Refunding RB, 5.00%, 1/01/31	1,730	1,873,054
Massachusetts Health & Educational Facilities Authority, Refunding RB, Winchester Hospital, 5.00%, 7/01/25	1,060	1,174,363
Massachusetts School Building Authority, RB, Dedicated Sales Tax, Series A (AGM), 5.00%, 8/15/15 (c)	5,870	5,880,918
		8,928,335
Michigan 2.3%		
Manistee Area Public Schools, GO, Refunding (Q-SBLF), 5.00%, 5/01/25	1,000	1,124,360
	Par	
Municipal Bonds		
Michigan (concluded)	(000)	Value
Michigan Finance Authority, Refunding RB, Senior Lien, Detroit Water and Sewer, Series C-3, 5.00%, 7/01/31	\$ 4,000	\$ 4,420,560
Michigan State Building Authority, Refunding RB, Facilities Program, Series II-A, 5.00%, 10/15/24	2,500	2,864,775
Michigan State Hospital Finance Authority, Refunding RB, Henry Ford Health System, 5.25%, 11/15/24	4,900	5,492,949
		13,902,644
Minnesota 1.5%		
City of St. Cloud Minnesota, Refunding RB, Centracare Health System, Series A, 4.25%, 5/01/21	2,300	2,539,982
St. Cloud Minnesota Independent School District No. 742, GO, Series A, 3.00%, 2/01/31	350	338,580
University of Minnesota, RB, Biomedical Science Research Facilities Funding Program:		
Series B, 5.00%, 8/01/36	1,000	1,121,910
Series C, 5.00%, 8/01/27	1,390	1,612,233
Series C, 5.00%, 8/01/28	740	853,953
Series C, 5.00%, 8/01/29	1,555	1,781,874
Series C, 5.00%, 8/01/30	835	954,271
		9,202,803
Mississippi 0.7%		
Mississippi Business Finance Corp., Refunding RB, System Energy Resource, Inc. Project, 5.88%, 4/01/22	4,190	4,214,428
Missouri 0.9%		
Missouri Joint Municipal Electric Utility Commission Power, RB, Prairie State Project, Series A (BHAC), 5.00%, 1/01/17 (c)	5,000	5,312,050
Montana 0.3%		
Montana State Board of Regents, RB, 5.00%, 11/15/30	1,000	1,156,090

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
Montana (concluded)		
Yellowstone County School District No. 2 Billings, GO, 5.00%, 6/15/30	\$ 500	\$ 585,015
		1,741,105
Nebraska 1.2%		
Douglas County Hospital Authority No. 3, Refunding RB:		
5.00%, 11/01/29	950	1,056,219
5.00%, 11/01/30	800	886,560
Lancaster County Hospital Authority No. 1, Refunding RB, Immanuel Obligation Group, 5.50%, 1/01/30	1,000	1,094,870
Nebraska Public Power District, Refunding RB:		
Series A, 5.00%, 1/01/30	1,000	1,120,260
Series A, 5.00%, 1/01/32	2,000	2,228,140
Series A-1, 3.00%, 1/01/33	900	855,468
		7,241,517
Nevada 1.6%		
Clark County Department of Aviation, Refunding RB, 5.00%, 7/01/33	5,000	5,614,850
County of Humboldt Nevada, Refunding RB, Idaho Power Co. Project, 5.15%, 12/01/24	3,800	4,226,474
		9,841,324
New Jersey 18.6%		
County of Essex New Jersey Improvement Authority, LRB, Newark Project, Series A (AGM), 5.00%, 11/01/20	2,000	2,212,600
Garden State Preservation Trust, RB, Election of 2005, Series A (AGM), 5.80%, 11/01/15 (c)	5,050	5,121,306
New Jersey EDA, RB, AMT:		
Continental Airlines, Inc. Project, 5.13%, 9/15/23	6,040	6,577,258
The Goethals Bridge Replacement Project, Private Activity Bond, 5.50%, 1/01/26	1,500	1,736,565
The Goethals Bridge Replacement Project, Private Activity Bond, 5.50%, 1/01/27	1,000	1,145,860
	Par	
Municipal Bonds		
New Jersey (continued)		
New Jersey EDA, Refunding RB:		
New Jersey American Water Co., Series E, AMT, 4.70%, 12/01/25	\$ 3,000	\$ 3,223,080
School Facilities Construction, Series AA, 4.25%, 12/15/24	3,850	3,904,092
School Facilities Construction, Series EE, 5.00%, 9/01/23	3,465	3,734,300
New Jersey Educational Facilities Authority, RB, Higher Education Facilities Trust Fund, 5.00%, 6/15/28	10,000	10,472,300
New Jersey Health Care Facilities Financing Authority, Refunding RB, Hackensack University Medical, Series B (AGM), 4.00%, 1/01/24	635	674,859
New Jersey Higher Education Student Assistance Authority, Refunding RB:		
Series 1, AMT, 5.50%, 12/01/26	1,665	1,833,898
Student Loan, Series 1A, 4.75%, 12/01/21	1,760	1,876,829
New Jersey State Turnpike Authority, Refunding RB, Series B, 5.00%, 1/01/29	10,000	11,285,400
New Jersey Transportation Trust Fund Authority, RB:		
Series B, 5.25%, 6/15/26	3,500	3,767,820
Transportation Program, Series AA, 5.25%, 6/15/31	12,000	12,688,200
Transportation System, Series A, 5.25%, 6/15/24	3,185	3,470,535
Transportation System, Series B, 5.50%, 6/15/31	13,970	14,920,658
Transportation System, Series C, 5.25%, 6/15/32	12,500	13,249,000
Newark Housing Authority, RB, Series A:		
5.00%, 12/01/23	1,230	1,423,799
5.00%, 12/01/25	1,345	1,538,519
South Jersey Port Corp., RB, Marine Terminal, Series O-1 (AGC), 4.63%, 1/01/23	1,375	1,474,289

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
New Jersey (concluded)		
State of New Jersey, GO, Various Purposes, 5.00%, 6/01/28	\$ 5,000	\$ 5,663,350
		111,994,517
New Mexico 1.3%		
Albuquerque Bernalillo County Water Utility Authority, Refunding RB, 4.00%, 7/01/33	4,510	4,743,843
New Mexico Hospital Equipment Loan Council, Refunding RB, 5.00%, 8/01/31	2,500	2,805,150
		7,548,993
New York 20.2%		
City of New York New York, GO, Refunding, Series E:		
Fiscal 2013, 5.00%, 8/01/24	4,000	4,522,560
5.00%, 8/01/30	6,230	7,088,182
City of New York New York, GO:		
Series D1, 5.13%, 12/01/26	4,615	5,069,808
Sub-Series B-1, 5.25%, 9/01/22	8,250	9,278,280
Sub-Series I-1, 5.50%, 4/01/21	5,000	5,727,700
County of Essex New York Industrial Development Agency, Refunding RB, International Paper Co. Project, Series A, AMT, 5.20%, 12/01/23	5,000	5,049,300
County of Westchester New York Healthcare Corp., Refunding RB, Senior Lien, Remarketing, Series A:		
5.00%, 11/01/24	5,470	6,057,150
5.00%, 11/01/30	895	964,604
Long Island Power Authority, Refunding RB, Electric System, Series A, 5.50%, 4/01/24	1,000	1,108,680
Metropolitan Transportation Authority, RB:		
Series B, 5.25%, 11/15/33	4,405	5,102,840
Sub-Series B-1, 5.00%, 11/15/24	2,300	2,714,368
Sub-Series B-4, 5.00%, 11/15/24	1,500	1,770,240
Monroe County Industrial Development Corp., Refunding RB, Series A, 5.00%, 7/01/29	5,695	6,583,363
New York City Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.00%, 1/15/23	3,560	3,986,239
	Par	
Municipal Bonds	(000)	Value
New York (continued)		
New York City Trust for Cultural Resources, Refunding RB, Carnegie Hall, Series A, 5.00%, 12/01/29	\$ 2,750	\$ 3,117,428
New York State Dormitory Authority, RB:		
Education, Series D, 5.00%, 9/15/16 (c)	5	5,261
Fordham University, Series A, 5.25%, 7/01/25	900	1,042,569
Mount Sinai School of Medicine, Series A (NPFGC), 5.15%, 7/01/24	1,000	1,132,680
Municipal Health Facilities Lease, Sub-Series 2-4, 5.00%, 1/15/27	6,900	7,559,226
New York University Hospitals Center, Series A, 5.00%, 7/01/22	1,725	1,949,336
New York University Hospitals Center, Series A, 5.13%, 7/01/23	1,670	1,896,853
North Shore-Long Island Jewish Health System, Series A, 5.50%, 5/01/19 (c)	1,495	1,723,675
New York State Dormitory Authority, Refunding RB:		
North Shore-Long Island Jewish Obligated Group, Series E, 5.00%, 5/01/22	650	722,930
Yeshiva University, 4.25%, 9/01/24	2,750	2,750,935
New York State Urban Development Corp., RB, Service Contract, Series B, 5.00%, 1/01/21	8,000	8,913,040
Port Authority of New York & New Jersey, ARB, JFK International Air Terminal LLC Project, 5.00%, 12/01/20	2,475	2,812,516
Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 152nd Series, AMT, 5.00%, 11/01/23	1,000	1,079,150
Port Authority of New York & New Jersey, Refunding RB:		
5.00%, 11/01/28	6,185	7,359,964
Consolidated, 153rd Series, 5.00%, 7/15/24	2,010	2,235,663

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

(Percentages shown are based on Net Assets)

	Par	
	(000)	Value
Municipal Bonds		
New York (concluded)		
State of New York Dormitory Authority, RB, Mental Health Services (AGM):		
5.00%, 8/15/18 (c)	\$ 30	\$ 33,682
5.00%, 2/15/22	3,950	4,392,163
5.00%, 8/15/18 (c)	10	11,227
2nd Series, 5.00%, 8/15/18 (c)	10	11,227
State of New York Dormitory Authority, Refunding RB, North Shore-Long Island Jewish Obligated Group, Series A, 5.00%, 5/01/32	7,060	7,903,246