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BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

Form N-Q

September 27, 2017

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: 04/30/2018

Date of reporting period: 07/31/2017

Item 1 Schedule of Investments

Schedule of Investments July 31, 2017 (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%, 6/01/19 (a)	\$ 4,615	\$ 5,032,796
County of Jefferson Alabama, RB, Limited Obligation School, Series A: 5.50%, 1/01/21	5,500	5,510,120
5.25%, 1/01/23	6,500	6,511,310
		17,054,226
Arizona 3.6%		
Arizona Board of Regents, University of Arizona, RB, 5.00%, 8/01/28	2,000	2,272,720
Arizona Health Facilities Authority, Refunding RB, Phoenix Children s Hospital, Series A, 5.00%, 2/01/30	2,685	2,908,983
Arizona Industrial Development Authority, RB, Academies of Math & Science Projects, Series B, 4.25%, 7/01/27 (b)	590	588,802
Arizona State University, RB, Series D, 5.00%, 7/01/32	1,350	1,577,286
City of Phoenix Arizona IDA, RB, Facility, Legacy Traditional Schools Project, Series A, 5.75%, 7/01/24 (b)	750	834,818
City of Tucson Arizona, COP, Refunding (AGC), 4.00%, 7/01/20	2,325	2,504,769
County of Pinal Arizona Electric District No. 3, Refunding RB, 5.00%, 7/01/21 (a)	1,600	1,836,560
Glendale Union School District No. 205, GO, Series C: 5.00%, 7/01/24	1,945	2,288,059
5.00%, 7/01/27	500	573,980
Phoenix-Mesa Gateway Airport Authority, RB, Mesa Project, AMT: 5.00%, 7/01/27	700	779,282
5.00%, 7/01/32	1,925	2,106,181
Scottsdale IDA, Refunding RB, Scottsdale Healthcare, Series C (AGM), 5.00%, 9/01/35	2,050	2,208,096
	Par (000)	Value
Municipal Bonds		
Arizona (continued)		
State of Arizona, COP, Department of Administration, Series A (AGM), 4.25%, 10/01/23	\$ 1,000	\$ 1,058,230
		21,537,766
Arkansas 0.9%		
City of Benton Arkansas, RB, 5.00%, 6/01/29	1,055	1,220,487
University of Arkansas, Refunding RB: 5.00%, 3/01/31	2,315	2,703,781
5.00%, 3/01/34	1,270	1,466,241
		5,390,509
California 6.3%		
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 5.00%, 8/15/22	2,135	2,390,517
California Health Facilities Financing Authority, Refunding RB, 5.00%, 11/15/29	1,930	2,296,912
California Infrastructure & Economic Development Bank, Refunding RB, 4.00%, 11/01/31	1,335	1,434,952
California Pollution Control Financing Authority, RB, Mandatory Put Bonds, Republic Services, Inc. Project, Series B, AMT, 5.25%, 6/01/23 (c)	605	612,048
City of Los Angeles Department of Airports, RB, Subordinate, Series A, AMT: 5.00%, 5/15/30	2,500	2,983,375
5.00%, 5/15/31	3,450	4,079,591
City of San Jose California, Refunding ARB, AMT: Norman Y Mineta San Jose International Airport SJC, Series A, 5.00%, 3/01/30	500	595,605
Series A-1, 5.00%, 3/01/25	2,000	2,223,700
City of San Jose California, Refunding RB, Norman Y Mineta San Jose International Airport SJC, AMT, Series A, 5.00%, 3/01/29	1,250	1,503,038
County of San Diego Regional Airport Authority, RB, Subordinate, Series B, AMT (d): 5.00%, 7/01/30	1,000	1,191,630
5.00%, 7/01/31	1,275	1,498,163
Golden State Tobacco Securitization Corp., Refunding RB, Series A-1, 5.00%, 6/01/26	5,000	5,979,000

BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

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Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

	Par (000)	Value
Municipal Bonds		
California (continued)		
San Marcos Schools Financing Authority, Refunding RB: 5.00%, 8/15/29	\$ 760	\$ 910,328
5.00%, 8/15/30	800	951,464
State of California, GO: 5.50%, 4/01/28	15	15,052
Various Purposes, 5.00%, 11/01/17 (a)	105	106,097
Various Purposes, 5.75%, 4/01/31	7,000	7,549,990
Various Purposes, 5.00%, 11/01/32	660	666,448
		36,987,910
Colorado 1.0%		
Denver Urban Renewal Authority, Refunding, Tax Allocation Bond, Stapleton, Senior-Series A-1, 5.00%, 12/01/23	2,500	2,902,375
Park Creek Metropolitan District, Refunding, Tax Allocation Bonds, 5.00%, 12/01/34	500	551,880
University of Northern Colorado, Refunding RB, Series A, 5.00%, 6/01/31	2,000	2,300,020
		5,754,275
Connecticut 2.6%		
Connecticut State Health & Educational Facility Authority, Refunding RB, Lawrence & Memorial Hospital, Series F, 5.00%, 7/01/31	4,530	4,904,178
University of Connecticut, RB, Series A: 5.00%, 3/15/28	5,000	5,911,150
5.00%, 3/15/32	4,000	4,597,120
		15,412,448
District of Columbia 0.2%		
Ingleside Rock Creek Project, Series A, 4.13%, 7/01/27	1,000	993,940
Florida 7.2%		
County of Broward Florida School Board, COP, Refunding, Series A (AGM), 5.00%, 7/01/24	10,000	11,355,000
County of Lee Florida, Refunding ARB, Series A, AMT (AGM), 5.00%, 10/01/27	1,635	1,835,892
County of Lee Florida, Refunding RB, Series A, AMT, 5.50%, 10/01/23	1,000	1,150,680
Municipal Bonds		
Florida (continued)		
County of Miami-Dade Florida, RB, AMT, Series B: 6.00%, 10/01/28	\$ 3,470	\$ 4,141,341
6.00%, 10/01/29	3,480	4,136,363
County of Miami-Dade Florida Educational Facilities Authority, Refunding RB, Series A, 5.00%, 4/01/32	5,020	5,725,009
County of Miami-Dade Florida Transit System Sales Surtax Revenue, Refunding RB, 5.00%, 7/01/32	1,500	1,711,230
County of Miami-Dade Florida Water & Sewer System Revenue, Refunding RB, Series C (BHAC), 5.00%, 10/01/18 (a)	8,000	8,376,800
Lakewood Ranch Stewardship District, Special Assessment Bonds: Del Webb Project, 3.65%, 5/01/22 (b)	640	646,656
Del Webb Project, 4.30%, 5/01/27 (b)	520	527,426
Lakewood National and Polo Run Projects, 4.00%, 5/01/22	1,500	1,525,260
Midtown Miami Community Development District, Refunding, Special Assessment Bonds, Series A, 4.25%, 5/01/24	1,485	1,583,841
Sterling Hill Community Development District, Refunding, Special Assessment Bonds, Series B, 5.50%, 11/01/10 (e)(f)	143	104,850
		42,820,348
Georgia 2.7%		
City of Atlanta Georgia Water & Wastewater Revenue, Refunding RB, 5.00%, 11/01/32	10,315	12,153,030
County of Cobb Kennestone Hospital Authority, Refunding RB, Revenue Anticipation Certificates (d): 5.00%, 4/01/31	800	928,928
5.00%, 4/01/32	1,250	1,444,662

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

	Par (000)	Value
Municipal Bonds		
Georgia (continued)		
County of Fulton Development Authority, RB, Revenue Anticipation Certificates, Series A, 5.00%, 4/01/32 (d)	\$ 1,000	\$ 1,155,730
		15,682,350
Hawaii 0.9%		
State of Hawaii Airports System, Refunding ARB, Series A, 5.25%, 7/01/29	5,000	5,560,350
Illinois 14.4%		
City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A: 5.00%, 1/01/32	5,000	5,561,100
AMT, 5.50%, 1/01/32	1,500	1,696,560
City of Chicago Illinois O Hare International Airport, Refunding GARB, AMT, Series C: 5.25%, 1/01/28	1,350	1,534,747
5.25%, 1/01/29	3,020	3,418,580
City of Chicago Illinois O Hare International Airport, RB, Refunding GARB, 5.00%, 1/01/32	3,745	4,309,484
City of Chicago Illinois O Hare International Airport, Refunding GARB, Senior Lien, Series A, AMT, 5.00%, 1/01/23	13,000	15,093,910
City of Chicago Illinois Transit Authority, RB, 5.25%, 12/01/31	3,700	4,029,485
Madison-Macoupin Etc. Counties Community College District No. 536, GO, Refunding, Lewis & Clark Community College:		
5.00%, 5/01/30	475	507,661
5.00%, 5/01/31	500	534,380
5.00%, 5/01/32	500	533,005
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	3,500	3,988,110
6.25%, 6/01/24	11,750	11,988,877
State of Illinois, GO:		
5.25%, 2/01/30	5,000	5,345,800
5.00%, 5/01/30	10,000	10,527,500
State of Illinois Toll Highway Authority, RB, Series A, 5.00%, 1/01/34	9,140	10,251,241
	Par (000)	Value
Municipal Bonds		
Illinois (continued)		
State of Illinois Toll Highway Authority, Refunding RB, Senior Series A, 5.00%, 12/01/31	\$ 5,220	\$ 6,016,520
		85,336,960
Indiana 5.1%		
City of Whiting Indiana, RB, BP Products North America, Inc. Project, 5.25%, 1/01/21	4,800	5,368,320
County of Jasper Indiana, Refunding RB, Northern Indiana Public Service Co., Series C (NPFGC), 5.85%, 4/01/19	2,000	2,130,720
Indiana Finance Authority, RB, Wastewater, 1st Lien, Series A, 5.25%, 10/01/31	10,000	11,540,700
Indiana Finance Authority, Refunding RB, US Steel Corp. Project, 6.00%, 12/01/19	5,000	5,162,550
Indiana Municipal Power Agency, Refunding RB, Series A, 5.00%, 1/01/33	5,000	5,845,350
		30,047,640
Iowa 1.1%		
Iowa Higher Education Loan Authority, RB, Private College Facility:		
5.25%, 4/01/23	695	791,501
5.25%, 4/01/24	730	830,236
5.25%, 4/01/25	520	590,606
5.25%, 4/01/26	360	408,190
Iowa Higher Education Loan Authority, Refunding RB, Private College Facility:		
5.00%, 9/01/20 (a)	2,315	2,589,952
Upper Iowa University Project, 5.00%, 9/01/20 (g)	1,000	1,090,280
		6,300,765
Kansas 1.4%		
Kansas Development Finance Authority, Refunding RB, Adventist Health System/Sunbelt Obligated Group, Series C, 5.00%, 11/15/23	1,500	1,627,800
Seward County Unified School District No. 480 Liberal, GO, Refunding:		

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5.00%, 9/01/33

1,005

1,170,282

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Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

	Par (000)	Value
Municipal Bonds		
Kansas (continued)		
Seward County Unified School District No. 480 Liberal, GO, Refunding (continued): 5.00%, 9/01/33	\$ 4,995	\$ 5,585,010
		8,383,092
Kentucky 0.5%		
County of Louisville/Jefferson Metropolitan Government, Refunding RB, Catholic Health Initiatives, Series A, 5.00%, 12/01/31	2,750	2,921,765
Louisiana 3.7%		
City of Bossier City Louisiana Utilities, Refunding RB, 5.00%, 10/01/32	2,000	2,310,520
City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring, Series A-2 (AGC), 6.00%, 1/01/19 (a)	850	910,257
Louisiana Local Government Environmental Facilities & Community Development Authority, Refunding RB, BRCC Facilities Corp. Project: 5.00%, 12/01/27	3,445	3,894,262
5.00%, 12/01/28	3,715	4,199,473
New Orleans Aviation Board, RB: General Airport, North Terminal Project, Series B, AMT, 5.00%, 1/01/32	800	931,816
Series A, 5.00%, 1/01/32	1,000	1,152,900
Series A, 5.00%, 1/01/33	1,000	1,148,560
State of Louisiana Gasoline & Fuels Tax Revenue, Refunding RB, 4.00%, 5/01/34	3,000	3,183,690
Terrebonne Levee & Conservation District, RB, Sales Tax, 5.00%, 7/01/28	3,660	4,091,917
		21,823,395
Maine 0.3%		
Portland Housing Development Corp., Refunding RB, Senior Living, Retirement Facilities, Series A, 6.00%, 2/01/34	1,965	1,967,535
Maryland 0.8%		
Maryland EDC, RB, Transportation Facilities Project, Series A, 5.13%, 6/01/20	1,375	1,455,080
	Par (000)	Value
Municipal Bonds		
Maryland (continued)		
Maryland Health & Higher Educational Facilities Authority, RB, Johns Hopkins Health System, Series B, 5.00%, 7/01/33	\$ 1,140	\$ 1,289,101
Maryland Health & Higher Educational Facilities Authority, Refunding RB, 5.00%, 7/01/33	1,500	1,683,105
		4,427,286
Massachusetts 1.7%		
Massachusetts Development Finance Agency, Refunding RB: Emerson College, 5.00%, 1/01/31	1,730	1,935,316
Suffolk University, 5.00%, 7/01/29	2,700	3,147,606
Suffolk University, 5.00%, 7/01/30	3,125	3,618,406
Massachusetts Health & Educational Facilities Authority, Refunding RB, Winchester Hospital, 5.00%, 7/01/25	1,060	1,155,644
		9,856,972
Michigan 3.1%		
Manistee Area Public Schools, GO, Refunding (Q-SBLF), 5.00%, 5/01/25	1,000	1,121,570
Michigan Finance Authority, Refunding RB, Senior Lien, Detroit Water and Sewer, Series C-3 (AGM), 5.00%, 7/01/31	4,000	4,566,000
Michigan State Building Authority, Refunding RB, Facilities Program, Series II-A, 5.00%, 10/15/24	2,500	2,841,800
Michigan State Hospital Finance Authority, Refunding RB, Henry Ford Health System, 5.25%, 11/15/19 (a)	4,900	5,365,647
State of Michigan, Refunding RB, Grant Anticipation, 5.00%, 3/15/25	3,750	4,572,975
		18,467,992
Minnesota 1.2%		
City of Minneapolis, RB, YMCA of the Greater Twin Cities Project: 4.00%, 6/01/30	150	160,299
4.00%, 6/01/31	50	53,055

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

	Par (000)	Value
Municipal Bonds		
Minnesota (continued)		
County of St. Paul Minnesota Housing & Redevelopment Authority, RB, Great River School Project, Series A, 4.75%, 7/01/29 (b)(d)	\$ 250	\$ 252,947
University of Minnesota, RB, Biomedical Science Research Facilities Funding Program:		
Series B, 5.00%, 8/01/36	1,000	1,122,050
Series C, 5.00%, 8/01/27	1,390	1,639,380
Series C, 5.00%, 8/01/28	740	870,344
Series C, 5.00%, 8/01/29	1,555	1,822,242
Series C, 5.00%, 8/01/30	835	974,044
		6,894,361
Missouri 0.6%		
Health & Educational Facilities Authority of the State of Missouri, Refunding RB, Webster University Project, 5.00%, 4/01/27	3,155	3,749,528
Montana 0.1%		
County of Yellowstone Montana School District No. 2 Billings, GO, 5.00%, 6/15/30	500	580,395
Nebraska 1.1%		
County of Douglas Nebraska Hospital Authority No. 3, Refunding RB, 5.00%, 11/01/30	800	921,704
County of Lancaster Nebraska Hospital Authority No. 1, Refunding RB, Immanuel Obligation Group, 5.50%, 1/01/30	1,000	1,084,620
Nebraska Public Power District, Refunding RB:		
Series A, 5.00%, 1/01/30	1,000	1,137,090
Series A, 5.00%, 1/01/32	2,000	2,265,060
Series A-1, 3.00%, 1/01/33	900	881,442
		6,289,916
Nevada 1.7%		
County of Clark Nevada Department of Aviation, Refunding RB, 5.00%, 7/01/33	5,000	5,680,500
	Par (000)	Value
Municipal Bonds		
Nevada (continued)		
County of Humboldt Nevada, Refunding RB, Idaho Power Co. Project, 5.15%, 12/01/24	\$ 3,800	\$ 4,076,982
		9,757,482
New Jersey 23.4%		
County of Essex New Jersey Improvement Authority, LRB, Newark Project, Series A (AGM), 5.00%, 11/01/20	2,000	2,157,460
New Jersey EDA, RB, AMT:		
Continental Airlines, Inc. Project, 5.13%, 9/15/23	6,040	6,532,743
Goethals Bridge Replacement Project, Private Activity Bond, 5.50%, 1/01/26	1,500	1,714,545
Goethals Bridge Replacement Project, Private Activity Bond, 5.50%, 1/01/27	1,000	1,139,900
New Jersey EDA, Refunding RB:		
New Jersey American Water Co., Series E, AMT, 4.70%, 12/01/25	3,000	3,255,660
School Facilities Construction, Series AA, 4.25%, 12/15/24	3,850	3,891,773
School Facilities Construction, Series EE, 5.00%, 9/01/23	3,465	3,658,035
New Jersey Educational Facilities Authority, RB, Higher Education Facilities Trust Fund, 5.00%, 6/15/28	10,000	10,516,600
New Jersey Educational Facilities Authority, Refunding RB, 5.00%, 7/01/30	5,000	5,717,000
New Jersey Health Care Facilities Financing Authority, Refunding RB, St. Joseph Health System Obligated Group Issue, 5.00%, 7/01/30	1,595	1,783,992
New Jersey Higher Education Student Assistance Authority, Refunding RB:		
Series 1, AMT, 5.50%, 12/01/26	1,040	1,141,275
Student Loan, Series 1A, 4.75%, 12/01/21	1,370	1,459,077
New Jersey State Turnpike Authority, RB, Series E, 5.00%, 1/01/32	12,000	13,852,320
New Jersey State Turnpike Authority, Refunding RB, Series B, 5.00%, 1/01/29	10,000	11,482,800

Schedule of Investments (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

	Par (000)	Value
Municipal Bonds		
New Jersey (continued)		
New Jersey Transportation Trust Fund Authority, RB:		
Federal Highway Reimbursement Revenue Notes, Series A, 5.00%, 6/15/30	\$ 2,000	\$ 2,146,100
Federal Highway Reimbursement Revenue Notes, Series A-2, 5.00%, 6/15/30	10,000	10,202,700
Series B, 5.25%, 6/15/26	3,500	3,706,850
Transportation Program, Series AA, 5.25%, 6/15/31	12,000	12,751,800
Transportation Program, Series AA, 5.25%, 6/15/32	2,250	2,406,870
Transportation System, Series A, 5.25%, 6/15/24	3,185	3,398,140
Transportation System, Series B, 5.50%, 6/15/31	13,970	14,657,883
Transportation System, Series C, 5.25%, 6/15/32	10,000	10,698,600
Newark Housing Authority, RB, Series A:		
5.00%, 12/01/23	1,230	1,428,571
5.00%, 12/01/25	1,345	1,540,913
South Jersey Port Corp., RB, Marine Terminal, Series O-1 (AGC), 4.63%, 1/01/19 (a)	1,375	1,447,325
State of New Jersey, GO, Various Purposes, 5.00%, 6/01/28	5,000	5,674,300
		138,363,232
New Mexico 1.2%		
Albuquerque Municipal School District No. 12, GO, Series 2017, 5.00%, 8/01/30	1,250	1,505,212
County of Albuquerque Bernalillo New Mexico Water Utility Authority, Refunding RB, 4.00%, 7/01/33	2,510	2,696,644
New Mexico Hospital Equipment Loan Council, Refunding RB, 5.00%, 8/01/31	2,500	2,901,475
		7,103,331
New York 18.0%		
Brooklyn Arena Local Development Corp., Refunding RB, Barclays Center Project, Series A, 5.00%, 7/15/30	500	579,700
Build NYC Resource Corp., Refunding RB, New York Law School Project, 5.00%, 7/01/33	3,085	3,424,504
	Par (000)	Value
Municipal Bonds		
New York (continued)		
City of New York New York, GO, Refunding, Series A, 5.00%, 8/01/29	\$ 6,125	\$ 7,356,492
City of New York New York, GO:		
Sub-Series B-1, 5.25%, 9/01/22	4,250	4,451,492
Sub-Series I-1, 5.50%, 4/01/21	5,000	