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BLACKROCK MUNI INTERMEDIATE DURATION FUND, INC.

Form N-Q

September 21, 2018

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: 04/30/2019

Date of reporting period: 07/31/2018

Item 1 Schedule of Investments

Schedule of Investments (unaudited)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| <i>Security</i> | <i>Par</i> | <i>Value</i> |
|---|--------------|--------------|
| | <i>(000)</i> | |
| Municipal Bonds 136.1% | | |
| Alabama 0.8% | | |
| City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children s Hospital (AGC), 6.00%, 06/01/19 ^(a) | \$ 4,615 | \$ 4,785,663 |
| Arizona 3.5% | | |
| Arizona Board of Regents, RB, University of Arizona, 5.00%, 08/01/28 | 2,000 | 2,162,180 |
| Arizona Health Facilities Authority, Refunding RB, Phoenix Children s Hospital, Series A, 5.00%, 02/01/30 | 2,685 | 2,856,518 |
| Arizona Industrial Development Authority, RB, Academies of Math & Science Projects, Series B, 4.25%, 07/01/27 ^(b) | 545 | 535,855 |
| City of Phoenix Arizona IDA, RB, Facility, Legacy Traditional Schools Project, Series A, 5.75%, 07/01/24 ^(b) | 750 | 806,707 |
| City of Phoenix Arizona IDA, Refunding RB, Downtown Phoenix Student Housing, Series A: 5.00%, 07/01/25 | 300 | 337,206 |
| 5.00%, 07/01/29 | 175 | 198,709 |
| 5.00%, 07/01/31 | 175 | 196,980 |
| City of Tucson Arizona, COP, Refunding (AGC), 4.00%, 07/01/20 | 2,325 | 2,419,883 |
| County of Pinal Arizona Electric District No. 3, Refunding RB, 5.00%, 07/01/21 ^(a) | 1,600 | 1,742,784 |
| Glendale Union School District No. 205, GO, Series C (BAM): | | |
| 5.00%, 07/01/24 | 1,945 | 2,189,584 |
| 5.00%, 07/01/27 | 500 | 558,190 |
| Phoenix-Mesa Gateway Airport Authority, RB, Mesa Project, AMT: | | |
| 5.00%, 07/01/27 | 700 | 758,863 |
| 5.00%, 07/01/32 | 1,925 | 2,074,977 |
| Scottsdale IDA, Refunding RB, Scottsdale Healthcare, Series C (AGM), 5.00%, 09/01/35 | 2,050 | 2,168,654 |
| State of Arizona, COP, Department of Administration, Series A (AGM), 4.25%, 10/01/23 | 1,000 | 1,027,020 |
| | | 20,034,110 |
| Arkansas 0.7% | | |
| City of Benton Arkansas, RB, 5.00%, 06/01/29 | 1,055 | 1,189,913 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Arkansas (continued) | | |
| University of Arkansas, Refunding RB, 5.00%, 03/01/31 | \$ 2,315 | \$ 2,649,008 |
| | | 3,838,921 |

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California 4.7%

| | | |
|--|--------|------------|
| California Health Facilities Financing Authority, RB, Sutter Health, Series B, 5.00%, 08/15/20 ^(a) | 2,135 | 2,286,072 |
| California Infrastructure & Economic Development Bank, Refunding RB, 4.00%, 11/01/31 | 1,335 | 1,415,300 |
| City of San Jose California, Refunding ARB, Series A-1, AMT, 5.00%, 03/01/25 | 2,000 | 2,141,780 |
| Golden State Tobacco Securitization Corp., Refunding RB, Series A-1, 5.00%, 06/01/33 | 12,500 | 14,226,000 |
| State of California, GO: 5.50%, 04/01/28 | 15 | 15,052 |
| Various Purposes, 5.75%, 04/01/31 | 7,000 | 7,196,070 |
| | | 27,280,274 |

Colorado 0.5%

| | | |
|---|-------|-----------|
| Colorado Health Facilities Authority, Refunding RB, Catholic Health Initiatives, Series B-1, 5.00%, 07/01/38 | 270 | 285,249 |
| Park Creek Metropolitan District, Refunding, Tax Allocation Bonds, 5.00%, 12/01/34 | 500 | 563,945 |
| University of Northern Colorado, Refunding RB, Series A, 5.00%, 06/01/31 | 2,000 | 2,247,700 |
| | | 3,096,894 |

Connecticut 2.6%

| | | |
|--|-------|------------|
| Connecticut State Health & Educational Facility Authority, Refunding RB, Lawrence & Memorial Hospital, Series F, 5.00%, 07/01/21 ^(a) | 4,530 | 4,894,031 |
| State of Connecticut, GO, Series A: 5.00%, 04/15/30 | 5,000 | 5,669,500 |
| 5.00%, 04/15/31 | 4,000 | 4,517,920 |
| | | 15,081,451 |

Delaware 0.8%

| | | |
|--|-------|-----------|
| County of Kent Delaware, RB, CHF-Dover, LLC-Delaware State University Project, Series A: 5.00%, 07/01/29 | 880 | 975,383 |
| 5.00%, 07/01/30 | 1,030 | 1,139,046 |
| 5.00%, 07/01/31 | 750 | 824,385 |
| 5.00%, 07/01/32 | 375 | 410,944 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|--|--------------|--------------|
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Delaware (continued) | | |
| County of Kent Delaware, RB, CHF-Dover, LLC-Delaware State University Project, Series A (continued): | | |
| 5.00%, 07/01/33 | \$ 1,190 | \$ 1,298,159 |
| | | 4,647,917 |
| Florida 7.3% | | |
| Capital Region Community Development District, Refunding, Special Assessment Bonds, Series A-1: | | |
| 4.13%, 05/01/23 | 500 | 500,375 |
| 4.63%, 05/01/28 | 500 | 499,965 |
| County of Broward Florida School Board, COP, Refunding, Series A (AGM), 5.00%, 07/01/21 ^(a) | 10,000 | 10,907,300 |
| County of Lee Florida, Refunding ARB, Series A, AMT (AGM), 5.00%, 10/01/27 | 1,635 | 1,767,222 |
| County of Lee Florida, Refunding RB, Series A, AMT, 5.50%, 10/01/23 | 1,000 | 1,097,630 |
| County of Miami-Dade Florida, RB, AMT, Series B: | | |
| 6.00%, 10/01/28 | 3,470 | 3,962,601 |
| 6.00%, 10/01/29 | 3,480 | 3,972,246 |
| County of Miami-Dade Florida Educational Facilities Authority, Refunding RB, Series A, 5.00%, 04/01/32 | 5,020 | 5,651,215 |
| County of Miami-Dade Florida Transit System Sales Surtax Revenue, Refunding RB, 5.00%, 07/01/32 | 1,500 | 1,646,010 |
| County of Miami-Dade Florida Water & Sewer System Revenue, Refunding RB, Series C (BHAC), 5.00%, 10/01/18 ^(a) | 8,000 | 8,048,800 |
| Lakewood Ranch Stewardship District, Special Assessment Bonds: | | |
| Del Webb Project, 3.65%, 05/01/22 ^(b) | 525 | 527,048 |
| Del Webb Project, 4.30%, 05/01/27 ^(b) | 520 | 522,116 |
| Lakewood National and Polo Run Projects, 4.00%, 05/01/22 | 1,230 | 1,241,255 |
| Midtown Miami Community Development District, Refunding, Special Assessment Bonds, Series A, 4.25%, 05/01/24 | 1,300 | 1,346,280 |
| Sarasota County Health Facilities Authority, RB, Sunnyside Village Project, 5.00%, 05/15/33 | 600 | 664,272 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Florida (continued) | | |
| Sterling Hill Community Development District, Refunding, Special Assessment Bonds, Series B, 5.50%, 11/01/10 ^{(c)(d)} | \$ 143 | \$ 91,229 |
| | | 42,445,564 |

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Georgia 3.1%

| | | |
|--|--------|------------|
| City of Atlanta Georgia Water & Wastewater Revenue, Refunding RB, 5.00%, 11/01/32 | 10,315 | 11,721,347 |
| County of Cobb Kennestone Hospital Authority, Refunding RB, Revenue Anticipation Certificates: | | |
| 5.00%, 04/01/31 | 800 | 908,824 |
| 5.00%, 04/01/32 | 1,250 | 1,413,975 |
| County of Fulton Development Authority, RB, Revenue Anticipation Certificates, Series A, 5.00%, 04/01/32 | 1,000 | 1,131,180 |
| Main Street Natural Gas Inc, RB, Series A, 5.50%, 09/15/28 | 2,500 | 2,972,175 |
| | | 18,147,501 |

Hawaii 0.9%

| | | |
|---|-------|-----------|
| State of Hawaii Airports System, Refunding ARB, Series A, 5.25%, 07/01/29 | 5,000 | 5,329,850 |
|---|-------|-----------|

Idaho 1.3%

| | | |
|---|-------|-----------|
| Idaho Health Facilities Authority, Refunding RB, St. Lukes Health System, Series A ^(e) : | | |
| 5.00%, 03/01/32 | 4,100 | 4,651,204 |
| 5.00%, 03/01/33 | 2,410 | 2,723,035 |
| | | 7,374,239 |

Illinois 14.9%

| | | |
|--|-------|-----------|
| Chicago Board of Education, GO, Refunding Dedicated Revenues, Series D, 5.00%, 12/01/26 | 4,185 | 4,403,038 |
| City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: | | |
| 5.00%, 01/01/32 | 5,000 | 5,444,000 |
| 5.50%, 01/01/32 | 1,500 | 1,668,345 |
| City of Chicago Illinois O Hare International Airport, Refunding GARB, AMT, Series C: | | |
| 5.25%, 01/01/28 | 1,350 | 1,481,692 |
| 5.25%, 01/01/29 | 3,020 | 3,308,048 |
| City of Chicago Illinois O Hare International Airport, RB, Refunding GARB, 5.00%, 01/01/32 | 3,745 | 4,174,327 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|--|--------------|---------------|
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Illinois (continued) | | |
| City of Chicago Illinois O Hare International Airport, Refunding GARB, Senior Lien, Series A, AMT, 5.00%, 01/01/23 | \$ 13,000 | \$ 14,453,400 |
| City of Chicago Illinois Transit Authority, RB, 5.25%, 12/01/31 | 3,700 | 3,980,090 |
| Cook County Community College District No. 508, GO, City College of Chicago, 5.13%, 12/01/38 | 1,000 | 1,037,900 |
| Illinois Finance Authority, Refunding RB, CHF-Chicago, LLC-University Of Illinois at Chicago: | | |
| 5.00%, 02/15/28 | 810 | 908,083 |
| 5.00%, 02/15/29 | 400 | 447,116 |
| 5.00%, 02/15/30 | 500 | 556,435 |
| 5.00%, 02/15/31 | 500 | 553,990 |
| 5.00%, 02/15/32 | 500 | 551,955 |
| Madison-Macoupin Etc. Counties Community College District No. 536, GO, Refunding, Lewis & Clark Community College: | | |
| 5.00%, 05/01/30 | 475 | 496,826 |
| 5.00%, 05/01/31 | 500 | 522,885 |
| 5.00%, 05/01/32 | 500 | 522,185 |
| Metropolitan Pier & Exposition Authority, Refunding RB, McCormick Place Expansion Project, 5.00%, 12/15/28 | 1,200 | 1,333,560 |
| Railsplitter Tobacco Settlement Authority, RB, 5.50%, 06/01/21 ^(a) | 3,500 | 3,852,660 |
| State of Illinois, GO: | | |
| 5.25%, 02/01/30 | 5,000 | 5,315,850 |
| 5.00%, 04/01/31 | 1,000 | 1,049,150 |
| 5.00%, 05/01/31 | 10,010 | 10,503,093 |
| Series D, 5.00%, 11/01/28 | 1,645 | 1,767,059 |
| State of Illinois Finance Authority, Refunding RB, Southern Illinois Healthcare Enterprises, Inc.: | | |
| 5.00%, 03/01/30 | 550 | 620,675 |
| 5.00%, 03/01/32 | 920 | 1,028,726 |
| State of Illinois Toll Highway Authority, RB, Series A, 5.00%, 01/01/34 | 9,140 | 10,044,951 |
| State of Illinois Toll Highway Authority, Refunding RB, Senior Series A, 5.00%, 12/01/31 | 5,220 | 5,924,074 |
| | | 85,950,113 |
| Indiana 4.0% | | |
| City of Whiting Indiana, RB, BP Products North America, Inc. Project, 5.25%, 01/01/21 | 4,800 | 5,166,912 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Indiana (continued) | | |
| | \$ 2,000 | \$ 2,050,300 |

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| | | |
|--|--------|------------|
| County of Jasper Indiana, Refunding RB, Northern Indiana Public Service Co., Series C (NPFGC), 5.85%, 04/01/19 | | |
| Indiana Finance Authority, RB, Wastewater, 1st Lien, Series A, 5.25%, 10/01/31 | 10,000 | 10,930,100 |
| Indiana Finance Authority, Refunding RB, US Steel Corp. Project, 6.00%, 12/01/19 | 5,000 | 5,156,250 |
| | | 23,303,562 |
| Iowa 1.2% | | |
| Iowa Higher Education Loan Authority, RB, Private College Facility: | | |
| 5.25%, 04/01/23 | 695 | 752,727 |
| 5.25%, 04/01/24 | 730 | 790,634 |
| 5.25%, 04/01/25 | 520 | 563,191 |
| 5.25%, 04/01/26 | 360 | 389,707 |
| Iowa Higher Education Loan Authority, Refunding RB, Private College Facility: | | |
| 5.00%, 09/01/20 ^(a) | 2,315 | 2,468,021 |
| Upper Iowa University Project, 5.00%, 09/01/20 ^(f) | 1,000 | 1,040,660 |
| Iowa Student Loan Liquidity Corp., Refunding RB, AMT, Series A, 5.00%, 12/01/26 | 775 | 868,450 |
| | | 6,873,390 |
| Kansas 1.4% | | |
| County of Seward Unified School District No. 480 Liberal, GO, Refunding: | | |
| 5.00%, 09/01/22 ^(a) | 1,005 | 1,112,163 |
| 5.00%, 09/01/22 ^(a) | 3,990 | 4,463,374 |
| 5.00%, 09/01/33 | 1,005 | 1,112,163 |
| Kansas Development Finance Authority, Refunding RB, Health Hospital Nursing Home Improvements: | | |
| 5.00%, 11/15/19 ^(a) | 35 | 36,426 |
| 5.00%, 11/15/23 | 1,465 | 1,528,317 |
| | | 8,252,443 |
| Kentucky 0.5% | | |
| County of Louisville/Jefferson Metropolitan Government, Refunding RB, Catholic Health Initiatives: | | |
| 5.00%, 12/01/35 | 120 | 126,527 |
| Series A, 5.00%, 12/01/31 | 2,750 | 2,916,815 |
| | | 3,043,342 |
| Louisiana 3.3% | | |
| City of Bossier City Louisiana Utilities, Refunding RB, 5.00%, 10/01/32 | 2,000 | 2,288,840 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| <i>Security</i> | <i>Par</i> | <i>Value</i> |
|---|--------------|--------------|
| <i>(000)</i> | <i>(000)</i> | <i>(000)</i> |
| Louisiana (continued) | | |
| City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring, Series A-2 (AGC), 6.00%, 01/01/19 ^(a) | \$ 850 | \$ 866,312 |
| Louisiana Local Government Environmental Facilities & Community Development Authority, Refunding RB, BRCC Facilities Corp. Project: | | |
| 5.00%, 12/01/27 | 3,445 | 3,747,264 |
| 5.00%, 12/01/28 | 3,715 | 4,040,954 |
| New Orleans Aviation Board, RB, Series A, | | |
| 5.00%, 01/01/33 | 1,000 | 1,111,560 |
| State of Louisiana Gasoline & Fuels Tax Revenue, Refunding RB, 4.00%, 05/01/34 | 3,000 | 3,119,520 |
| Terrebonne Levee & Conservation District, RB, Sales Tax, 5.00%, 07/01/28 | 3,660 | 4,084,157 |
| | | 19,258,607 |
| Maine 0.3% | | |
| Portland Housing Development Corp., Refunding RB, Senior Living, Retirement Facilities, Series A, 6.00%, 02/01/34 | 1,965 | 1,967,751 |
| Maryland 1.7% | | |
| City of Rockville Maryland, RB, Ingleside King Farm Project, 3.50%, 11/01/26 | 1,825 | 1,819,744 |
| Maryland Economic Development Corp., RB, Transportation Facilities Project, Series A, 5.13%, 06/01/20 ^(f) | 1,020 | 1,067,583 |
| Maryland Economic Development Corp., Refunding RB, Transportation Facilities Project, Series A: | | |
| 5.00%, 06/01/29 | 1,835 | 2,098,304 |
| 5.00%, 06/01/30 | 1,015 | 1,155,151 |
| 5.00%, 06/01/31 | 1,000 | 1,133,600 |
| 5.00%, 06/01/32 | 1,000 | 1,125,580 |
| Maryland Health & Higher Educational Facilities Authority, RB, Johns Hopkins Health System, Series B, 5.00%, 07/01/33 | 1,140 | 1,255,904 |
| | | 9,655,866 |
| Massachusetts 1.7% | | |
| Massachusetts Development Finance Agency, Refunding RB: | | |
| Emerson College Issue, Series A, 5.00%, 01/01/31 | 1,730 | 1,896,617 |
| Suffolk University, 5.00%, 07/01/29 | 2,700 | 3,069,765 |
| Suffolk University, 5.00%, 07/01/30 | 3,125 | 3,540,031 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Massachusetts (continued) | | |
| Massachusetts Health & Educational Facilities Authority, Refunding RB, Winchester Hospital, 5.00%, 07/01/25 | \$ 1,060 | \$ 1,116,943 |

| | | |
|--|-------|------------|
| | | 9,623,356 |
| Michigan 2.3% | | |
| Manistee Area Public Schools, GO, Refunding (Q-SBLF), 5.00%, 05/01/25 | 1,000 | 1,083,130 |
| Michigan Finance Authority, Refunding RB, Senior Lien, Detroit Water and Sewer, Series C-3 (AGM), 5.00%, 07/01/31 | 4,000 | 4,458,000 |
| Michigan State Building Authority, Refunding RB, Facilities Program, Series II-A, 5.00%, 10/15/24 | 2,500 | 2,729,850 |
| Michigan State Hospital Finance Authority, Refunding RB, Henry Ford Health System, 5.25%, 11/15/19 ^(a) | 4,900 | 5,124,714 |
| | | 13,395,694 |
| Minnesota 1.1% | | |
| City of Minneapolis, RB, YMCA of the Greater Twin Cities Project: | | |
| 4.00%, 06/01/30 | 150 | 157,506 |
| 4.00%, 06/01/31 | 50 | 52,221 |
| County of St. Paul Minnesota Housing & Redevelopment Authority, RB, Great River School Project, Series A, 4.75%, 07/01/29 ^(b) | 250 | 253,073 |
| University of Minnesota, RB, Biomedical Science Research Facilities Funding Program: | | |
| Series B, 5.00%, 08/01/36 | 1,000 | 1,082,900 |
| Series C, 5.00%, 08/01/27 | 1,390 | 1,568,309 |
| Series C, 5.00%, 08/01/28 | 740 | 834,187 |
| Series C, 5.00%, 08/01/29 | 1,555 | 1,750,572 |
| Series C, 5.00%, 08/01/30 | 835 | 938,757 |
| | | 6,637,525 |
| Missouri 0.3% | | |
| City of St. Louis Missouri IDA, Refunding RB, Ballpark Village Development Project, Series A, 3.88%, 11/15/29 | 395 | 401,573 |
| St. Louis County Industrial Development Authority, Refunding RB, Friendship Village St. Louis Obligated Group: | | |
| 5.00%, 09/01/27 | 360 | 405,266 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|--|--------------|--------------|
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| Missouri (continued) | | |
| St. Louis County Industrial Development Authority, Refunding RB, Friendship Village St. Louis Obligated Group (continued): | | |
| 5.00%, 09/01/32 | \$ 1,015 | \$ 1,119,241 |
| | | 1,926,080 |
| Montana 0.1% | | |
| County of Yellowstone Montana School District No. 2 Billings, GO, 5.00%, 06/15/30 | 500 | 562,885 |
| Nebraska 0.9% | | |
| County of Douglas Nebraska Hospital Authority No. 3, Refunding RB, 5.00%, 11/01/30 | 800 | 893,544 |
| County of Lancaster Nebraska Hospital Authority No. 1, Refunding RB, Immanuel Obligation Group, 5.50%, 01/01/30 | 1,000 | 1,050,830 |
| Nebraska Public Power District, Refunding RB, Series A: | | |
| 5.00%, 01/01/30 | 1,000 | 1,088,490 |
| 5.00%, 01/01/32 | 2,000 | 2,171,480 |
| | | 5,204,344 |
| Nevada 1.7% | | |
| County of Clark Nevada Department of Aviation, Refunding RB, 5.00%, 07/01/33 | 5,000 | 5,604,250 |
| County of Humboldt Nevada, Refunding RB, Idaho Power Co. Project, 5.15%, 12/01/24 | 3,800 | 3,932,202 |
| | | 9,536,452 |
| New Hampshire 0.2% | | |
| New Hampshire Health & Education Facilities Authority Act, Refunding RB, Dartmouth-Hitchcock Obligated Group, Series A: | | |
| 5.00%, 08/01/31 | 640 | 733,709 |
| 5.00%, 08/01/32 | 365 | 416,195 |
| | | 1,149,904 |
| New Jersey 26.3% | | |
| County of Essex New Jersey Improvement Authority, LRB, Newark Project, Series A (AGM), 5.00%, 11/01/20 | 2,000 | 2,076,720 |
| New Jersey EDA, ARB, Continental Airlines, Inc. Project, 5.13%, 09/15/23 | 6,040 | 6,540,776 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| New Jersey (continued) | | |
| New Jersey EDA, RB, Goethals Bridge Replacement Project, Private Activity Bond AMT: | | |
| 5.50%, 01/01/26 | \$ 1,500 | \$ 1,700,490 |
| 5.50%, 01/01/27 | 1,000 | 1,129,370 |
| New Jersey EDA, Refunding ARB, Port Newark Container Terminal LLC Project, AMT: | | |

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| | | |
|--|--------|------------|
| 5.00%, 10/01/26 | 2,135 | 2,378,262 |
| 5.00%, 10/01/27 | 1,680 | 1,873,234 |
| New Jersey EDA, Refunding RB: | | |
| New Jersey American Water Co., Series E, AMT, 4.70%, 12/01/25 | 3,000 | 3,143,550 |
| School Facilities Construction, Series AA, 4.25%, 12/15/24 | 3,850 | 3,891,541 |
| School Facilities Construction, Series EE, 5.00%, 09/01/23 | 3,465 | 3,658,728 |
| New Jersey Educational Facilities Authority, RB, Higher Education Facilities Trust Fund, 5.00%, 06/15/28 | 10,000 | 10,877,800 |
| New Jersey Educational Facilities Authority, Refunding RB, 5.00%, 07/01/30 | 5,000 | 5,603,500 |
| New Jersey Health Care Facilities Financing Authority, Refunding RB, St. Joseph Health System Obligated Group Issue, 5.00%, 07/01/30 | 1,595 | 1,748,694 |
| New Jersey Higher Education Student Assistance Authority, Refunding RB: | | |
| AMT, Series B, 5.00%, 12/01/27 | 1,000 | 1,138,110 |
| AMT, Series B, 5.00%, 12/01/28 | 1,000 | 1,136,290 |
| Series 1, AMT, 5.50%, 12/01/26 | 835 | 887,029 |
| Student Loan, Series 1A, 4.75%, 12/01/21 | 1,160 | 1,195,763 |
| New Jersey State Turnpike Authority, RB, Series E, 5.00%, 01/01/32 | 12,000 | 13,487,400 |
| New Jersey State Turnpike Authority, Refunding RB, Series B, 5.00%, 01/01/29 | 10,000 | 11,100,300 |
| New Jersey Transportation Trust Fund Authority, RB: | | |
| Federal Highway Reimbursement Revenue Notes, Series A, 5.00%, 06/15/30 | 2,000 | 2,220,700 |
| Series B, 5.25%, 06/15/26 | 3,500 | 3,719,800 |
| Transportation Program, Series AA, 5.25%, 06/15/31 | 12,000 | 12,909,960 |
| 5.25%, 06/15/32 | 2,250 | 2,471,197 |
| Transportation System, Series A, 5.25%, 06/15/24 | 3,185 | 3,407,695 |
| Transportation System, Series B, 5.50%, 06/15/31 | 13,970 | 14,780,679 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|---|--------------|---------------|
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| New Jersey (continued) | | |
| New Jersey Transportation Trust Fund Authority, RB (continued): | | |
| Transportation System, Series C, 5.25%, 06/15/32 | \$ 10,000 | \$ 10,937,200 |
| New Jersey Transportation Trust Fund Authority, Refunding RB, Federal Highway Reimbursement Revenue Notes, Series A, 5.00%, 06/15/30 | 1,695 | 1,882,043 |
| Newark Housing Authority, RB, Series A: 5.00%, 12/01/23 | 1,230 | 1,386,198 |
| 5.00%, 12/01/25 | 1,345 | 1,518,962 |
| South Jersey Port Corp., ARB, Sobordinated Marine Terminal, Series B, AMT: 5.00%, 01/01/29 | 250 | 278,575 |
| 5.00%, 01/01/30 | 200 | 222,352 |
| 5.00%, 01/01/31 | 350 | 387,937 |
| 5.00%, 01/01/32 | 425 | 468,924 |
| South Jersey Port Corp., RB, Marine Terminal, Series O-1 (AGC), 4.63%, 01/01/19 ^(a) | 1,375 | 1,393,618 |
| State of New Jersey, GO, Various Purposes, 5.00%, 06/01/28 | 5,000 | 5,646,200 |
| Tobacco Settlement Financing Corp., Refunding RB, Series A: 5.00%, 06/01/30 | 850 | 972,740 |
| 5.00%, 06/01/32 | 7,000 | 7,947,730 |
| Tobacco Settlement Bonds, 5.00%, 06/01/33 | 5,200 | 5,866,900 |
| | | 151,986,967 |
| New Mexico 1.2% | | |
| Albuquerque Municipal School District No. 12, GO, Series 2017, 5.00%, 08/01/30 | 1,250 | 1,457,500 |
| County of Albuquerque Bernalillo New Mexico Water Utility Authority, Refunding RB, 4.00%, 07/01/33 | 2,510 | 2,644,762 |
| New Mexico Hospital Equipment Loan Council, Refunding RB, 5.00%, 08/01/31 | 2,500 | 2,821,875 |
| | | 6,924,137 |
| New York 13.8% | | |
| Build NYC Resource Corp., RB, Inwood Academy for Leadership Charter School Project, Series A, 4.88%, 05/01/31 ^(b) | 450 | 460,314 |
| City of New York, GO, Refunding, Series A, 5.00%, 08/01/29 | 6,125 | 7,072,599 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| New York (continued) | | |
| City of New York, GO: | | |
| Sub-Series B-1, 5.25%, 09/01/22 | \$ 4,250 | \$ 4,263,387 |
| Sub-Series I-1, 5.50%, 04/01/19 ^(a) | 3,310 | 3,400,628 |
| Sub-Series I-1, 5.50%, 04/01/21 | 1,690 | 1,735,140 |
| | 3,560 | 3,615,643 |

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| | | |
|--|-------|------------|
| City of New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.00%, 01/15/23 | | |
| Counties of Buffalo & Erie New York Industrial Land Development Corp., Refunding RB, The Charter School for Applied Technologies Project, Series A: | | |
| 4.00%, 06/01/22 | 800 | 829,600 |
| 4.50%, 06/01/27 | 1,710 | 1,838,866 |
| 5.00%, 06/01/35 | 415 | 448,520 |
| County of Monroe New York Industrial Development Corp., Refunding RB, Series A, 5.00%, 07/01/23 ^(a) | 5,695 | 6,513,656 |
| County of Westchester New York Healthcare Corp., Refunding RB, Senior Lien, Remarketing, Series A: | | |
| 5.00%, 11/01/24 | 5,470 | 5,854,869 |
| 5.00%, 11/01/30 | 655 | 695,839 |
| Long Island Power Authority, Refunding RB, Electric System, Series A, 5.50%, 04/01/19 ^(a) | 1,000 | 1,027,380 |
| Metropolitan Transportation Authority, RB ^(a) : | | |
| Sub-Series B-1, 5.00%, 11/15/21 | 2,300 | 2,539,200 |
| Sub-Series B-4, 5.00%, 11/15/21 | 1,500 | 1,656,000 |
| New York City Trust for Cultural Resources, Refunding RB, Carnegie Hall, Series A, 5.00%, 12/01/29 | 2,750 | 2,867,727 |
| New York State Dormitory Authority, RB, North Shore-Long Island Jewish Health System, Series A, 5.50%, 05/01/19 ^(a) | 1,495 | 1,540,717 |
| New York State Dormitory Authority, Refunding RB: | | |
| 4.25%, 09/01/19 ^(a) | 480 | 493,882 |
| 5.00%, 07/01/30 | 1,555 | 1,787,612 |
| Port Authority of New York & New Jersey, ARB, JFK International Air Terminal LLC Project, Series 8, 5.00%, 12/01/20 | 2,475 | 2,574,346 |
| State of New York Dormitory Authority, RB: | | |
| Fordham University, Series A, 5.25%, 07/01/21 ^(a) | 900 | 990,171 |
| Icahn School of Medicine at Mount Sinai, Series A, 5.00%, 07/01/32 | 9,000 | 10,074,420 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|---|--------------|--------------|
| | <i>(000)</i> | <i>Value</i> |
| <i>Security</i> | | |
| New York (continued) | | |
| State of New York Dormitory Authority, RB (continued): | | |
| Mental Health Services (AGM), 5.00%, 08/15/18 ^(a) | \$ 10 | \$ 10,014 |
| Mental Health Services (AGM), 5.00%, 08/15/18 ^(a) | 30 | 30,042 |
| Mental Health Services (AGM), 5.00%, 02/15/22 | 325 | 325,978 |
| Mental Health Services, 2nd Series (AGM), 5.00%, 08/15/18 ^(a) | 10 | 10,014 |
| Municipal Health Facilities Lease, Sub-Series 2-4, 5.00%, 01/15/27 | 6,900 | 6,910,971 |
| New York University Hospitals Center, Series A, 5.00%, 07/01/20 ^(a) | 1,725 | 1,830,708 |
| New York University Hospitals Center, Series A, 5.13%, 07/01/20 ^(a) | 1,670 | 1,776,262 |
| State of New York Dormitory Authority, Refunding RB: North Shore-Long Island Jewish Obligated Group, Series A, 5.00%, 05/01/32 | 3,060 | 3,437,145 |
| Orange Regional Medical Center, 5.00%, 12/01/27 ^(b) | 900 | 1,022,238 |
| Orange Regional Medical Center, 5.00%, 12/01/28 ^(b) | 1,800 | 2,035,620 |
| | | 79,669,508 |
| North Carolina 0.3% | | |
| North Carolina Medical Care Commission, Refunding RB, WakeMed, Series A, 5.00%, 10/01/31 | 1,500 | 1,654,245 |
| Ohio 1.2% | | |
| State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1, 5.25%, 02/15/31 | 6,000 | 6,708,840 |
| Oklahoma 1.6% | | |
| Norman Regional Hospital Authority, Refunding RB, 5.00%, 09/01/28 | 1,575 | 1,783,814 |
| Oklahoma City Public Property Authority, Refunding RB: 5.00%, 10/01/27 | 1,190 | 1,373,022 |
| 5.00%, 10/01/28 | 1,265 | 1,456,875 |
| 5.00%, 10/01/29 | 1,400 | 1,606,444 |
| Oklahoma Development Finance Authority, RB, OU Medicene Project, Series B: 5.00%, 08/15/29 | 1,200 | 1,366,464 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |

Oklahoma (continued)

Oklahoma Development Finance Authority, RB, OU Medicene Project, Series B (continued):
5.00%, 08/15/33

\$ 1,305 \$ 1,462,409

9,049,028

Oregon 1.5%

County of Klamath Oregon School District, GO:

5.00%, 06/15/30

1,000 1,122,700

5.00%, 06/15/31

1,000 1,121,230

County of Umatilla Oregon School District No. 16R Pendleton, GO, Series A, 5.00%, 06/15/32

2,000 2,266,660

Oregon State Facilities Authority, Refunding RB, Reed College Project, Series A, 5.00%,
07/01/20^(a)

1,835 1,950,678

State of Oregon, GO, Series H, 5.00%, 05/01/36

2,000 2,191,240

8,652,508

Pennsylvania 7.6%

Allentown Neighborhood Improvement Zone Development Authority, RB, City Center
Project^(b):

5.00%, 05/01/22

2,000 2,146,560

5.00%, 05/01/23

640 687,706

5.00%, 05/01/28

835 933,255

Commonwealth Financing Authority, RB, Tobacco Master Settlement Payment:

5.00%, 06/01/31

1,000 1,132,710

5.00%, 06/01/32

2,715 3,060,782

5.00%, 06/01/33

2,000 2,245,860

County of Allegheny Pennsylvania, GO, Refunding, Series C-68, 5.00%, 11/01/25

2,515 2,740,218

County of Allegheny Pennsylvania, GO, Series C-67:

5.00%, 11/01/25

2,700 2,941,785

5.00%, 11/01/26

2,375 2,585,354

County of Montgomery Higher Education & Health Authority, Refunding RB, Thomas
Jefferson University, 5.00%, 09/01/32

1,310 1,502,046

Pennsylvania Economic Development Financing Authority, RB, PA Bridges Finco LP, AMT,
5.00%, 12/31/28

115 128,511

Pennsylvania Turnpike Commission, RB,
Sub-Series B, 5.25%, 12/01/21^(a)

4,000 4,442,680

Pennsylvania Turnpike Commission, Refunding RB:

Second Series, 5.00%, 12/01/30

2,620 2,959,342

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|---|--------------|--------------|
| | <i>(000)</i> | <i>Value</i> |
| <i>Security</i> | | |
| Pennsylvania (continued) | | |
| Pennsylvania Turnpike Commission, Refunding RB (continued): | | |
| Sub-Series B-2, 5.00%, 06/01/31 | \$ 5,000 | \$ 5,613,750 |
| School District of Philadelphia, GO, Series A: 5.00%, 09/01/30 | 1,200 | 1,372,596 |
| 5.00%, 09/01/31 | 1,000 | 1,140,140 |
| 5.00%, 09/01/32 | 1,200 | 1,362,672 |
| South Fork Municipal Authority, Refunding RB, Conemaugh Valley Memorial Hospital, Series A (AGC), 6.00%, 07/01/20 ^(a) | 6,225 | 6,709,679 |
| | | 43,705,646 |
| Rhode Island 1.3% | | |
| Providence Redevelopment Agency, Refunding RB, Series A, 5.00%, 04/01/29 | 1,000 | 1,083,480 |
| Rhode Island Health & Educational Building Corp., RB, City of Newport Issue Financing Program, Series C, 5.00%, 05/15/30 | 2,305 | 2,532,872 |
| Rhode Island Health & Educational Building Corp., Refunding RB, 5.00%, 09/01/32 | 2,000 | 2,240,160 |
| Rhode Island Student Loan Authority, Refunding RB, Senior Series A, AMT: 5.00%, 12/01/24 | 750 | 836,790 |
| 5.00%, 12/01/25 | 850 | 952,179 |
| | | 7,645,481 |
| South Carolina 2.5% | | |
| South Carolina Jobs-Economic Development Authority, Refunding RB, The Woodlands at Furman, 4.00%, 11/15/27 | 995 | 1,001,368 |
| South Carolina Public Service Authority, Refunding RB, Series A: 5.00%, 12/01/30 | 5,500 | 6,120,290 |
| 5.00%, 12/01/31 | 5,660 | 6,265,450 |
| 5.00%, 12/01/32 | 200 | 220,672 |
| | <i>Par</i> | |
| <i>Security</i> | | |
| South Carolina (continued) | | |
| South Carolina Public Service Authority, Refunding RB, Series A (continued): 5.00%, 12/01/33 | \$ 800 | \$ 876,368 |
| | | 14,484,148 |
| South Dakota 0.2% | | |
| South Dakota Health & Educational Facilities Authority, Refunding RB, Regional Health, 5.00%, 09/01/20 ^(a) | 1,000 | 1,067,160 |
| Tennessee 2.0% | | |

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| | | |
|--|-------|------------|
| County of Memphis-Shelby Industrial Development Board, Refunding, Tax Allocation Bonds, Graceland Project, Series A, 4.75%, 07/01/27 | 220 | 232,432 |
| County of Memphis-Shelby Tennessee Sports Authority, Inc., Refunding RB, Memphis Arena Project: | | |
| Series A, 5.00%, 11/01/23 | 2,695 | 2,803,555 |
| Series B, 5.00%, 11/01/22 | 1,000 | 1,040,150 |
| Knox County Health Educational & Housing Facility Board Tennessee, Refunding RB, Eastowne Village Project, 4.00%, 06/01/31 ^(g) | 2,965 | 3,042,149 |
| Metropolitan Government Nashville & Davidson County Health & Educational Facilities Board, RB, Vanderbilt University Medical Center, Series A, 5.00%, 07/01/35 | 4,000 | 4,467,160 |
| | | 11,585,446 |
| Texas 10.0% | | |
| City of Austin Texas Water & Wastewater System Revenue, Refunding RB, 5.00%, 11/15/30 | 6,000 | 6,989,160 |
| City of Grapevine Texas, GO, 5.00%, 02/15/33 | 5,685 | 6,298,582 |
| City of Houston Texas, Refunding ARB, Subordinate Lien, Series A, AMT: | | |
| 5.00%, 07/01/25 | 1,500 | 1,614,360 |
| 5.00%, 07/01/32 | 1,010 | 1,095,315 |
| City of Houston Texas Airport System Revenue, Refunding ARB, Sub-Series A, AMT: | | |
| 5.00%, 07/01/31 | 1,430 | 1,656,369 |
| 5.00%, 07/01/32 | 1,115 | 1,286,364 |
| Dallas-Fort Worth International Airport, ARB, Joint Improvement, Series D, AMT, 5.00%, 11/01/38 | 8,290 | 8,889,367 |
| Dallas-Fort Worth Texas International Airport, Refunding RB, AMT: | | |
| Series E, 5.00%, 11/01/26 | 2,185 | 2,323,813 |

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| | <i>Par</i> | |
|---|--------------|--------------|
| | <i>(000)</i> | <i>Value</i> |
| <i>Security</i> | | |
| Texas (continued) | | |
| Dallas-Fort Worth Texas International Airport, Refunding RB, AMT (continued): | | |
| Series E, 5.00%, 11/01/27 | \$ 4,960 | \$ 5,272,827 |
| Series F, 5.00%, 11/01/31 | 6,345 | 6,733,695 |
| Love Field Airport Modernization Corp., RB, Southwest Airlines Co. Project, AMT, 5.00%, 11/01/28 | 1,000 | 1,079,150 |
| New Hope Cultural Education Facilities Finance Corp., RB, Jubilee Academic Center Project, Series A ^(b) : | | |
| 3.63%, 08/15/22 | 105 | 104,279 |
| 4.25%, 08/15/27 | 160 | 160,269 |
| Red River Education Financing Corp., RB, 5.00%, 03/15/33 | 1,340 | 1,477,873 |
| San Jacinto River Authority, RB, Special Project (AGM), 5.25%, 10/01/25 | 2,910 | 3,031,230 |
| Socorro Independent School District, GO, Refunding (PSF-GTD): | | |
| 5.00%, 08/15/20 ^(a) | 2,410 | 2,570,988 |
| 5.00%, 08/15/32 | 90 | 95,546 |
| Via Metropolitan Transit Authority, Refunding RB: | | |
| 5.25%, 08/01/28 | 1,585 | 1,786,976 |
| 5.25%, 08/01/29 | 1,720 | 1,936,600 |
| 5.25%, 08/01/33 | 3,000 | 3,374,790 |
| | | 57,777,553 |
| U.S. Virgin Islands 0.9% | | |
| Virgin Islands Public Finance Authority, Refunding RB, Series A (AGM), 5.25%, 10/01/24 | 5,000 | 5,333,750 |
| Utah 0.3% | | |
| Utah Charter School Finance Authority, Refunding RB, Freedom Academy Foundation Project, 4.50%, 06/15/27 ^(b) | 1,500 | 1,489,095 |
| Vermont 1.0% | | |
| University of Vermont & State Agricultural College, Refunding RB, 4.00%, 10/01/30 | 5,565 | 5,843,862 |
| Washington 0.3% | | |
| Washington State Housing Finance Commission, Refunding RB, Horizone House Project, 5.00%, 01/01/27 ^(b) | 1,355 | 1,530,432 |
| West Virginia 1.0% | | |
| West Virginia Hospital Finance Authority, Refunding RB, Charleston Area Medical Center, Inc., Series A, 5.13%, 09/01/23 | 4,000 | 4,118,520 |
| <i>Security</i> | <i>Par</i> | <i>Value</i> |

(000)

West Virginia (continued)

| | | |
|---|----------|--------------|
| West Virginia University, RB, West Virginia University Project, Series B, 5.00%, 10/01/30 | \$ 1,500 | \$ 1,623,810 |
| | | 5,742,330 |

Wisconsin 1.3%

Public Finance Authority, Refunding RB, AMT:

| | | |
|---|-------|-----------|
| National Gypsum Co., 5.25%, 04/01/30 | 2,410 | 2,570,795 |
| Wisconsin Airport Facilities, Senior Obligated Group, Series B, 5.25%, 07/01/28 | 4,765 | 5,130,619 |
| | | 7,701,414 |

Total Municipal Bonds 136.1%

| | | |
|----------------------|--|-------------|
| (Cost \$758,151,446) | | 786,955,248 |
|----------------------|--|-------------|

Municipal Bonds Transferred to Tender Option Bond Trusts^(h)**California 4.0%**

| | | |
|---|--------|------------|
| Bay Area Toll Authority, Refunding RB, San Francisco Bay Area Subordinate, 4.00%, 04/01/31 ⁽ⁱ⁾ | 8,080 | 8,765,850 |
| State of California, GO, Refunding Water Utility Authority, 5.00%, 10/01/35 | 12,500 | 14,425,186 |
| | | 23,191,036 |

Connecticut 2.0%

| | | |
|--|--------|------------|
| Connecticut State Health & Educational Facility Authority, Refunding RB, Trinity Health Group, 5.00%, 12/01/33 | 10,000 | 11,393,605 |
|--|--------|------------|

Iowa 1.3%

| | | |
|--|-------|-----------|
| Iowa Finance Authority, Refunding RB, UnityPoint Health, Series C, 4.13%, 02/15/35 | 7,500 | 7,654,375 |
|--|-------|-----------|

Massachusetts 3.4%

| | | |
|---|-------|-----------|
| Massachusetts Development Finance Agency, Refunding RB, Partners Healthcare System: 5.00%, 07/01/32 | 7,500 | 8,742,025 |
|---|-------|-----------|

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

(Percentages shown are based on Net Assets)

| <i>Security</i> | <i>Par</i> | <i>Value</i> |
|--|--------------|---------------|
| <i>(000)</i> | | |
| Massachusetts (continued) | | |
| Massachusetts Development Finance Agency, Refunding RB, Partners Healthcare System (continued): | | |
| Series L, 5.00%, 07/01/31 | \$ 10,175 | \$ 11,020,124 |
| | | 19,762,149 |
| Minnesota 1.9% | | |
| State of Minnesota, GO, State Various Purposes, Series A, 4.00%, 08/01/20 ^(a) | 10,525 | 10,987,792 |
| New Jersey 1.6% | | |
| New Jersey Housing & Mortgage Finance Agency, Refunding RB, S/F, AMT, Series BB: | | |
| 3.65%, 04/01/28 | 5,000 | 4,999,990 |
| 3.70%, 10/01/28 | 3,875 | 3,874,682 |
| | | 8,874,672 |
| New York 10.8% | | |
| City of New York, GO: | | |
| Sub-Series 1-I, 5.00%, 03/01/32 | 7,009 | 7,861,842 |
| Refunding Series E, 5.00%, 08/01/19 ^(a) | 1,018 | 1,051,401 |
| Refunding Series E, 5.00%, 08/01/27 | 2,489 | 2,572,371 |
| Metropolitan Transportation Authority, RB, Sub-Series D-1, 5.00%, 11/15/39 | 4,980 | 5,543,055 |
| Metropolitan Transportation Authority, Refunding RB, Series B, 5.25%, 11/15/19 ^(a) | 4,001 | 4,192,454 |
| New York City Transitional Finance Authority Future Tax Secured Revenue, RB, Future Tax Secured Subordinate Bonds, SubSeries B-1, 5.00%, 08/01/36 | 9,444 | 10,746,114 |
| Port Authority of New York & New Jersey, Refunding ARB: | | |
| 178th Series, AMT, 5.00%, 12/01/32 | 4,009 | 4,432,231 |
| Consolidated, Series 169th, 5.00%, 10/15/26 | 5,530 | 5,988,050 |
| | <i>Par</i> | |
| <i>Security</i> | <i>(000)</i> | <i>Value</i> |
| New York (continued) | | |
| Sales Tax Asset Receivable Corp., Refunding RB, Fiscal 2015, Series A, 5.00%, 10/15/31 | \$ 5,010 | \$ 5,745,084 |
| State of New York Dormitory Authority, Refunding RB, Series E, 5.25%, 03/15/33 | 7,000 | 8,129,205 |
| State of New York Urban Development Corp., RB, Personal Income Tax, Series A-1, 5.00%, 03/15/32 | 5,501 | 6,125,189 |
| | | 62,386,996 |
| Texas 1.5% | | |
| Pflugerville Independent School District, GO, (PSF-GTD), 5.00%, 02/15/24 ^(a) | 7,500 | 8,649,075 |
| Washington 2.9% | | |

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| | | |
|--|---------------|----------------|
| Port of Seattle Washington, ARB, AMT, Series A, 5.00%, 05/01/34 | 15,000 | 16,929,900 |
| Total Municipal Bonds Transferred to Tender Option Bond Trusts 29.4% | | |
| (Cost \$166,406,388) | | 169,829,600 |
| Total Long-Term Investments 165.5% | | |
| (Cost \$924,557,834) | | 956,784,848 |
| | <i>Shares</i> | |
| Short-Term Securities 0.3% | | |
| BlackRock Liquidity Funds, MuniCash, Institutional Class, 0.85%(j)(k) | 1,851,665 | 1,852,036 |
| Total Short-Term Securities 0.3% | | |
| (Cost \$1,852,036) | | 1,852,036 |
| Total Investments 165.8% | | |
| (Cost \$926,409,870) | | 958,636,884 |
| Other Assets Less Liabilities 1.1% | | 7,009,462 |
| Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (17.3)% | | (100,291,790) |
| VMTP Shares at Liquidation Value (49.6)% | | (287,100,000) |
| Net Assets Applicable to Common Shares 100.0% | | \$ 578,254,556 |

(a) U.S. 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) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration to qualified institutional investors.

(c) Issuer filed for bankruptcy and/or is in default.

(d) Non-income producing security.

(e) When-issued security.

(f) Security is collateralized by municipal bonds or U.S. Treasury obligations.

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

- (g) Variable or floating rate security, which interest rate adjusts periodically based on changes in current interest rates and prepayments on the underlying pool of assets. Rate shown is the rate in effect as of period end.
- (h) Represent bonds transferred to a TOB Trust in exchange of cash and residual certificates received by the Fund. These bonds serve as collateral in a secured borrowing.
- (i) All or a portion of security is subject to a recourse agreement. The aggregate maximum potential amount the Fund could ultimately be required to pay under the agreement, which expires on April 1, 2025 is \$6,226,089.
- (j) Annualized 7-day yield as of period end.
- (k) During the period ended July 31, 2018, investments in issuers considered to be an affiliate of the Fund for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| <i>Affiliate</i> | <i>Shares Held at 04/30/18</i> | <i>Net Activity</i> | <i>Shares Held at 07/31/18</i> | <i>Value at 07/31/18</i> | <i>Net Realized Gain (Loss)</i> | <i>Change in Unrealized Appreciation</i> |
|--|--------------------------------|---------------------|--------------------------------|--------------------------|---------------------------------|--|
| BlackRock Liquidity Funds, MuniCash, Institutional Class | | 1,851,665 | 1,851,665 | \$ 1,852,036 | \$ 5,082 | \$ 220 |

(a) Includes net capital gain distributions, if applicable.

Portfolio Abbreviations

| | |
|---------|---|
| AGC | Assured Guarantee Corp. |
| AGM | Assured Guaranty Municipal Corp. |
| AMT | Alternative Minimum Tax (subject to) |
| ARB | Airport Revenue Bonds |
| BAM | Build America Mutual Assurance Co. |
| BARB | Building Aid Revenue Bonds |
| BHAC | Berkshire Hathaway Assurance Corp. |
| COP | Certificates of Participation |
| EDA | Economic Development Authority |
| GARB | General Airport Revenue Bonds |
| GO | General Obligation Bonds |
| IDA | Industrial Development Authority |
| LRB | Lease Revenue Bonds |
| NPFGC | National Public Finance Guarantee Corp. |
| PSF-GTD | Permanent School Fund Guaranteed |
| Q-SBLF | Qualified School Bond Loan Fund |
| RB | Revenue Bonds |

S/F Single-Family

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

Derivative Financial Instruments Outstanding as of Period End**Futures Contracts**

| <i>Description</i> | <i>Number of Contracts</i> | <i>Expiration Date</i> | <i>Notional Amount (000)</i> | <i>Value / Unrealized Appreciation (Depreciation)</i> |
|----------------------------|--------------------------------|----------------------------|----------------------------------|---|
| Short Contracts: | | | | |
| 10-Year U.S. Treasury Note | 199 | 09/19/18 | \$ 23,765 | \$ 54,138 |
| Long U.S. Treasury Bond | 78 | 09/19/18 | 11,152 | (468) |
| 5-Year U.S. Treasury Note | 93 | 09/28/18 | 10,521 | 15,032 |
| | | | | \$ 68,702 |

Fair Value Hierarchy as of Period End

Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a fair value hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 Unadjusted price quotations in active markets/exchanges for identical assets or liabilities that the Fund has the ability to access

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 and derivative financial instruments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. Investments classified within Level 3 have significant unobservable inputs used by the BlackRock Global Valuation Methodologies Committee (the Global Valuation Committee) in determining the

price for Fair Valued Investments. Level 3 investments include equity or debt issued by privately held companies or funds. There may not be a secondary market, and/or there are a limited number of investors. Level 3 investments may also be adjusted to reflect illiquidity and/or non-transferability, with the amount of such discount estimated by the Global Valuation Committee in the absence of market information.

Changes in valuation techniques may result in transfers into or out of an assigned level within the hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investments and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. For information about the Fund's policy regarding valuation of investments and derivative financial instruments, refer to the Fund's most recent financial statements as contained in its annual report.

The following tables summarize the Fund's investments and derivative financial instruments categorized in the disclosure hierarchy:

| | <i>Level 1</i> | <i>Level 2</i> | <i>Level 3</i> | <i>Total</i> |
|---|----------------|----------------|----------------|----------------|
| Assets: | | | | |
| Investments: | | | | |
| Long-Term Investments ^(a) | \$ | \$ 956,784,848 | \$ | \$ 956,784,848 |
| Short-Term Securities | 1,852,036 | | | 1,852,036 |
| | \$ 1,852,036 | \$ 956,784,848 | \$ | \$ 958,636,884 |
| Derivative Financial Instruments ^(b) | | | | |
| Assets: | | | | |
| Interest rate contracts | \$ 69,170 | \$ | \$ | \$ 69,170 |
| Liabilities: | | | | |
| Interest rate contracts | (468) | | | (468) |
| | \$ 68,702 | \$ | \$ | \$ 68,702 |

^(a) See above Schedule of Investments for values in each state or political subdivision.

^(b) Derivative financial instruments are futures contracts which are valued at the unrealized appreciation (depreciation) on the instrument.

Schedule of Investments (unaudited) (continued)

BlackRock Muni Intermediate Duration Fund, Inc. (MUI)

July 31, 2018

The Fund may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial statement purposes. As of period end, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

| | <i>Level 1</i> | <i>Level 2</i> | <i>Level 3</i> | <i>Total</i> |
|----------------------------------|----------------|------------------|----------------|------------------|
| Liabilities: | | | | |
| TOB Trust Certificates | \$ | \$ (100,050,641) | \$ | \$ (100,050,641) |
| VMTP Shares at Liquidation Value | | (287,100,000) | | (287,100,000) |
| | \$ | \$ (387,150,641) | \$ | \$ (387,150,641) |

During the period ended July 31, 2018, there were no transfers between levels.

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 Muni Intermediate Duration Fund, Inc.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Muni Intermediate Duration Fund, Inc.

Date: September 20, 2018

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 Muni Intermediate Duration Fund, Inc.

Date: September 20, 2018

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Muni Intermediate Duration Fund, Inc.

Date: September 20, 2018