

BLACKROCK SENIOR HIGH INCOME FUND, INC.

Form N-Q

January 27, 2014

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 811-07456

Name of Fund: BlackRock Senior High Income Fund, Inc. (ARK)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

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

Income 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: 02/28/2014

Date of reporting period: 11/30/2013

Item 1 Schedule of Investments

Consolidated Schedule of Investments November 30, 2013 (Unaudited) **BlackRock Senior High Income Fund, Inc. (ARK)**

(Percentages shown are based on Net Assets)

| | Shares | Value |
|---|--------------|--------------|
| Common Stocks | | |
| Chemicals 0.0% | | |
| GEO Specialty Chemicals, Inc. (a)(b) | 142,466 | \$ 121,096 |
| Containers & Packaging 0.2% | | |
| Smurfit Kappa Group PLC | 18,171 | 431,494 |
| Metals & Mining 0.1% | | |
| Euramax International | 935 | 224,376 |
| Paper & Forest Products 0.7% | | |
| Ainsworth Lumber Co., Ltd. (a) | 258,827 | 937,306 |
| Ainsworth Lumber Co., Ltd. (a)(b)(c) | 191,008 | 688,787 |
| | | 1,626,093 |
| Software 0.3% | | |
| HMH Holdings/EduMedia (a) | 54,143 | 839,216 |
| Total Common Stocks 1.3% | | 3,242,275 |
| | Par | |
| | (000) | |
| Asset-Backed Securities | | |
| ACAS CLO Ltd., Series 2013-1A, Class D, 3.84%, 4/20/25 (b)(d) | \$ 250 | 238,750 |
| ALM Loan Funding (b)(d): | | |
| Series 2013-7R2A, Class B, 2.86%, 4/24/24 | 325 | 314,665 |
| Series 2013-7RA, Class C, 3.71%, 4/24/24 | 910 | 880,516 |
| Series 2013-7RA, Class D, 5.26%, 4/24/24 | 400 | 367,880 |
| Atrium CDO Corp., Series 9A, Class D, 3.74%, 2/28/24 (b)(d) | 250 | 239,125 |
| Carlyle Global Market Strategies CLO Ltd., Series 2012-4A, Class D, 4.74%, 1/20/25 (b)(d) | 300 | 303,573 |
| CFIP CLO Ltd., Series 2013-1A, Class D, 3.99%, 4/20/24 (b)(d) | 500 | 480,480 |
| Fraser Sullivan CLO VII Ltd., Series 2012-7A, Class C, 4.24%, 4/20/23 (b)(d) | 405 | 401,720 |
| Highbridge Loan Management Ltd., Series 2012-1A, Class C, 5.25%, 9/20/22 (b)(d) | 650 | 652,275 |
| LCM IX LP, Series 9A, Class E, 4.44%, 7/14/22 (b)(d) | 500 | 470,250 |
| Madison Park Funding XI Ltd., Series 2013-11A, Class D, 3.80%, 10/23/25 (b)(d) | 250 | 237,400 |
| | Par | |
| | (000) | Value |
| Mountain View CLO Ltd., Series 2013-1A, Class D, 3.54%, 4/12/24 (b)(d) | \$ 500 | \$ 471,250 |
| Regatta Funding LP, Series 2013-2A, Class C, 4.24%, 1/15/25 (b)(d) | 750 | 743,025 |
| Symphony CLO Ltd., Series 2012-10A, Class D, 5.49%, 7/23/23 (b)(d) | 650 | 653,250 |
| Total Asset-Backed Securities 2.7% | | 6,454,159 |
| Corporate Bonds | | |
| Aerospace & Defense 0.6% | | |
| DigitalGlobe, Inc., 5.25%, 2/01/21 (b) | 351 | 342,225 |
| Huntington Ingalls Industries, Inc., 7.13%, 3/15/21 | 375 | 408,750 |
| Kratos Defense & Security Solutions, Inc., 10.00%, 6/01/17 | 692 | 749,090 |
| | | 1,500,065 |
| Airlines 1.1% | | |
| Air Canada Pass-Through Trust, Series 2013-1, Class C, 6.63%, 5/15/18 (b) | 243 | 241,785 |
| Continental Airlines Pass-Through Trust, Series 2012-3, Class C, 6.13%, 4/29/18 | 780 | 807,300 |
| Delta Air Lines Pass-Through Trust, Series 2009-1, Class B, 9.75%, 6/17/18 | 79 | 89,428 |
| United Continental Holdings, Inc., 6.00%, 12/01/20 | 355 | 353,225 |
| US Airways Pass-Through Trust, Series 2013-1, Class B, 5.38%, 5/15/23 | 795 | 773,138 |
| Virgin Australia Trust, Series 2013-1, Class C, 7.13%, 10/23/18 (b) | 465 | 466,706 |
| | | 2,731,582 |

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Auto Components 1.5%

| | | |
|--|-------|-----------|
| Affinia Group, Inc., 7.75%, 5/01/21 (b) | 410 | 428,450 |
| Delphi Corp., 6.13%, 5/15/21 | 130 | 143,000 |
| Icahn Enterprises LP/Icahn Enterprise Finance Corp., 7.75%, 1/15/16 | 110 | 112,750 |
| Icahn Enterprises LP/Icahn Enterprises Finance Corp., 8.00%, 1/15/18 | 2,065 | 2,155,344 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|------------|------------|
| | (000) | Value |
| Corporate Bonds | | |
| Auto Components (concluded) | | |
| Pittsburgh Glass Works LLC, 8.00%, 11/15/18 (b) | \$ 160 | \$ 166,400 |
| Schaeffler Holding Finance BV, 6.88%, 8/15/18 (b)(c) | 410 | 436,650 |
| Titan International, Inc., 6.88%, 10/01/20 (b) | 210 | 216,825 |
| Venture Holdings Co. LLC (a)(e): | | |
| 12.00%, 7/01/49 | 700 | |
| Series B, 9.50%, 7/01/05 | 3,325 | |
| | | 3,659,419 |
| Automobiles 0.4% | | |
| Ford Motor Co., 4.25%, 11/15/16 (f) | 164 | 331,793 |
| General Motors Co. (b): | | |
| 4.88%, 10/02/23 | 165 | 166,031 |
| 6.25%, 10/02/43 | 440 | 446,600 |
| | | 944,424 |
| Beverages 0.0% | | |
| Constellation Brands, Inc., 7.25%, 5/15/17 | 30 | 34,763 |
| Building Materials 0.1% | | |
| Momentive Performance Materials, Inc., 8.88%, 10/15/20 | 195 | 205,238 |
| Building Products 0.6% | | |
| American Builders & Contractors Supply Co., Inc., 5.63%, 4/15/21 (b) | 155 | 156,937 |
| Building Materials Corp. of America (b): | | |
| 7.00%, 2/15/20 | 485 | 521,375 |
| 6.75%, 5/01/21 | 410 | 441,775 |
| Texas Industries, Inc., 9.25%, 8/15/20 | 196 | 215,110 |
| | | 1,335,197 |
| Capital Markets 0.2% | | |
| American Capital Ltd., 6.50%, 9/15/18 (b) | 365 | 378,231 |
| KCG Holdings, Inc., 8.25%, 6/15/18 (b) | 90 | 92,588 |
| | | 470,819 |
| Chemicals 2.7% | | |
| Ashland, Inc., 3.88%, 4/15/18 | 255 | 256,275 |
| Chemtura Corp., 5.75%, 7/15/21 | 76 | 76,950 |
| GEO Specialty Chemicals, Inc., 7.50%, 3/31/15 (b) | 1,869 | 4,129,657 |
| Huntsman International LLC, 8.63%, 3/15/21 | 395 | 442,400 |
| | Par | |
| Corporate Bonds | | |
| Chemicals (concluded) | | |
| INEOS Finance PLC, 7.50%, 5/01/20 (b) | \$ 125 | \$ 136,875 |
| INEOS Group Holdings SA, 6.13%, 8/15/18 (b) | 255 | 256,594 |
| LSB Industries, Inc., 7.75%, 8/01/19 (b) | 113 | 117,802 |
| NOVA Chemicals Corp., 8.63%, 11/01/19 | 188 | 207,270 |
| Nufarm Australia Ltd., 6.38%, 10/15/19 (b) | 120 | 124,200 |
| Orion Engineered Carbons Bondco GmbH, 9.63%, 6/15/18 (b) | 400 | 442,000 |
| PetroLogistics LP/PetroLogistics Finance Corp., 6.25%, 4/01/20 (b) | 98 | 98,368 |
| US Coatings Acquisition, Inc., 7.38%, 5/01/21 (b) | 151 | 160,060 |
| | | 6,448,451 |
| Commercial Banks 0.7% | | |
| CIT Group, Inc.: | | |
| 5.00%, 5/15/17 | 330 | 352,275 |
| 6.63%, 4/01/18 (b) | 65 | 73,450 |

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| | | |
|---|-----|-----------|
| 5.50%, 2/15/19 (b) | 994 | 1,071,035 |
| Sally Holdings LLC / Sally Capital, Inc., 5.50%, 11/01/23 | 190 | 189,050 |
| | | 1,685,810 |
| Commercial Services & Supplies 2.5% | | |
| ACCO Brands Corp., 6.75%, 4/30/20 | 113 | 112,576 |
| The ADT Corp., 6.25%, 10/15/21 (b) | 152 | 158,650 |
| ARAMARK Corp., 5.75%, 3/15/20 (b) | 547 | 570,247 |
| AWAS Aviation Capital Ltd., 7.00%, 10/17/16 (b) | 416 | 431,401 |
| Brickman Group Holdings, Inc., 9.13%, 11/01/18 (b) | 25 | 26,721 |
| Catalent Pharma Solutions, Inc., 7.88%, 10/15/18 | 114 | 115,995 |
| Covanta Holding Corp., 6.38%, 10/01/22 | 420 | 432,796 |
| The Geo Group, Inc., 5.88%, 1/15/22 (b) | 125 | 125,000 |
| Interactive Data Corp., 10.25%, 8/01/18 | 810 | 912,303 |
| Mobile Mini, Inc., 7.88%, 12/01/20 | 335 | 369,338 |
| United Rentals North America, Inc.: | | |
| 5.75%, 7/15/18 | 462 | 496,072 |
| 7.38%, 5/15/20 | 230 | 257,025 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc.
(ARK)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Corporate Bonds | | |
| Commercial Services & Supplies (concluded) | | |
| United Rentals North America, Inc. (concluded): | | |
| 7.63%, 4/15/22 | \$ 1,656 | \$ 1,854,720 |
| West Corp., 8.63%, 10/01/18 | 165 | 179,644 |
| | | 6,042,488 |
| Communications Equipment 0.8% | | |
| Alcatel-Lucent USA, Inc., 6.75%, 11/15/20 (b) | 345 | 348,019 |
| Avaya, Inc., 7.00%, 4/01/19 (b) | 264 | 256,740 |
| Zayo Group LLC/Zayo Capital, Inc., 8.13%, 1/01/20 | 1,110 | 1,223,775 |
| | | 1,828,534 |
| Construction & Engineering 0.1% | | |
| Safway Group Holding LLC/Safway Finance Corp., 7.00%, 5/15/18 (b) | 200 | 209,500 |
| Weekley Homes LLC/Weekley Finance Corp., 6.00%, 2/01/23 (b) | 120 | 115,200 |
| | | 324,700 |
| Construction Materials 1.0% | | |
| HD Supply, Inc., 8.13%, 4/15/19 | 2,080 | 2,321,800 |
| Consumer Finance 0.2% | | |
| Ford Motor Credit Co. LLC: | | |
| 7.00%, 4/15/15 | 140 | 151,499 |
| 6.63%, 8/15/17 | 300 | 350,399 |
| | | 501,898 |
| Containers & Packaging 0.4% | | |
| Ball Corp., 6.75%, 9/15/20 | 325 | 353,438 |
| Crown Americas LLC/Crown Americas Capital Corp. III, 6.25%, 2/01/21 | 589 | 636,120 |
| | | 989,558 |
| Distributors 0.1% | | |
| VWR Funding, Inc., 7.25%, 9/15/17 | 323 | 345,610 |
| Diversified Consumer Services 0.2% | | |
| APX Group, Inc., 6.38%, 12/01/19 | 321 | 324,210 |
| Rent-A-Center, Inc., 4.75%, 5/01/21 | 256 | 240,000 |
| | | 564,210 |
| Diversified Financial Services 3.9% | | |
| Aircastle Ltd., 6.25%, 12/01/19 | 136 | 146,880 |
| Ally Financial, Inc.: | | |
| 8.30%, 2/12/15 | 2,420 | 2,613,600 |
| 8.00%, 11/01/31 | 1,383 | 1,645,675 |
| | | 6,042,488 |
| Corporate Bonds | | |
| Diversified Financial Services (concluded) | | |
| DPL, Inc.: | | |
| 6.50%, 10/15/16 | \$ 26 | \$ 28,080 |
| 7.25%, 10/15/21 | 69 | 70,380 |
| Jefferies Finance LLC/JFIN Co-Issuer Corp., 7.38%, 4/01/20 (b) | 210 | 217,613 |
| Jefferies LoanCore LLC/JLC Finance Corp., 6.88%, 6/01/20 (b) | 200 | 197,500 |
| Reynolds Group Issuer, Inc.: | | |
| 7.13%, 4/15/19 | 1,347 | 1,441,290 |
| 9.88%, 8/15/19 | 510 | 566,100 |
| 5.75%, 10/15/20 | 1,810 | 1,855,250 |
| 6.88%, 2/15/21 | 400 | 432,000 |
| WMG Acquisition Corp., 11.50%, 10/01/18 | 281 | 325,257 |

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| | | |
|--|-------------|-----------|
| | | 9,539,625 |
| Diversified Telecommunication Services | 1.6% | |
| CenturyLink, Inc., Series V, 5.63%, 4/01/20 | 342 | 347,985 |
| Level 3 Financing, Inc.: | | |
| 3.83%, 1/15/18 (b)(d) | 220 | 221,650 |
| 8.13%, 7/01/19 | 2,768 | 3,030,960 |
| 7.00%, 6/01/20 | 184 | 195,040 |
| Windstream Corp., 7.75%, 10/15/20 | 18 | 19,260 |
| | | 3,814,895 |
| Electric Utilities | 0.1% | |
| Mirant Mid Atlantic Pass Through Trust B, Series B, 9.13%, 6/30/17 | 197 | 208,227 |
| Electrical Equipment | 0.1% | |
| General Cable Corp., 6.50%, 10/01/22 (b) | 350 | 346,500 |
| Energy Equipment & Services | 2.8% | |
| Calfrac Holdings LP, 7.50%, 12/01/20 (b) | 765 | 774,562 |
| CGG (FKA Compagnie Generale de Geophysique, Veritas), 6.50%, 6/01/21 | 1,105 | 1,135,387 |
| Gulfmark Offshore, Inc., 6.38%, 3/15/22 | 70 | 71,050 |
| Hornbeck Offshore Services, Inc., 5.88%, 4/01/20 | 140 | 144,200 |
| MEG Energy Corp., 6.50%, 3/15/21 (b) | 890 | 925,600 |
| Oil States International, Inc.: | | |
| 6.50%, 6/01/19 | 711 | 756,326 |
| 5.13%, 1/15/23 | 339 | 380,528 |
| Peabody Energy Corp.: | | |
| 6.00%, 11/15/18 | 523 | 555,688 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc.
(ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|--------------|--------------|
| | (000) | Value |
| Corporate Bonds | | |
| Energy Equipment & Services (concluded) | | |
| Peabody Energy Corp. (concluded): | | |
| 6.25%, 11/15/21 | \$ 522 | \$ 533,745 |
| Precision Drilling Corp.: | | |
| 6.63%, 11/15/20 | 65 | 69,388 |
| 6.50%, 12/15/21 | 270 | 288,225 |
| Rain CII Carbon LLC/CII Carbon Corp., 8.25%, 1/15/21 (b) | 200 | 205,000 |
| Seadrill Ltd., 5.63%, 9/15/17 (b) | 963 | 989,482 |
| | | 6,829,181 |
| Food Products 0.2% | | |
| Post Holdings, Inc., 6.75%, 12/01/21 (b) | 94 | 95,880 |
| Smithfield Foods, Inc., 6.63%, 8/15/22 | 295 | 311,594 |
| Sun Merger Sub, Inc. (b): | | |
| 5.25%, 8/01/18 | 78 | 81,510 |
| 5.88%, 8/01/21 | 73 | 75,555 |
| | | 564,539 |
| Gas Utilities 0.3% | | |
| Targa Resources Partners LP/Targa Resources Partners Finance Corp., 7.88%, 10/15/18 | 570 | 618,450 |
| Health Care Equipment & Supplies 0.6% | | |
| Biomet, Inc.: | | |
| 6.50%, 8/01/20 | 640 | 678,400 |
| 6.50%, 10/01/20 | 395 | 410,800 |
| DJO Finance LLC/DJO Finance Corp., 8.75%, 3/15/18 | 185 | 202,575 |
| Teleflex, Inc., 6.88%, 6/01/19 | 250 | 262,500 |
| | | 1,554,275 |
| Health Care Providers & Services 1.9% | | |
| Aviv Healthcare Properties LP/Aviv Healthcare Capital Corp.: | | |
| 7.75%, 2/15/19 | 365 | 392,375 |
| 6.00%, 10/15/21 (b) | 87 | 89,175 |
| CHS/Community Health Systems, Inc., 5.13%, 8/15/18 | 185 | 192,400 |
| HCA, Inc., 7.88%, 2/15/20 | 1,349 | 1,455,234 |
| Hologic, Inc., 6.25%, 8/01/20 | 716 | 755,380 |
| LifePoint Hospitals, Inc., 5.50%, 12/01/21 (b)(g) | 87 | 87,435 |
| Tenet Healthcare Corp.: | | |
| 6.25%, 11/01/18 | 425 | 465,375 |
| 8.00%, 8/01/20 | 199 | 216,910 |
| 6.00%, 10/01/20 (b) | 173 | 180,785 |
| 4.38%, 10/01/21 (b) | 323 | 303,620 |
| | Par | |
| | (000) | Value |
| Corporate Bonds | | |
| Health Care Providers & Services (concluded) | | |
| Tenet Healthcare Corp. (concluded): | | |
| 8.13%, 4/01/22 | \$ 452 | \$ 490,420 |
| | | 4,629,109 |
| Health Care Technology 0.8% | | |
| IMS Health, Inc., 12.50%, 3/01/18 (b) | 1,730 | 2,041,400 |
| Hotels, Restaurants & Leisure 1.2% | | |
| Carlson Wagonlit BV, 6.88%, 6/15/19 (b) | 200 | 207,000 |
| Diamond Resorts Corp., 12.00%, 8/15/18 | 540 | 599,400 |
| GLP Capital LP/GLP Financing II, Inc. (b): | | |
| 4.38%, 11/01/18 | 134 | 136,680 |

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| | | |
|---|-----|-----------|
| 4.88%, 11/01/20 | 172 | 171,570 |
| Isle of Capri Casinos, Inc.: | | |
| 7.75%, 3/15/19 | 25 | 26,750 |
| 5.88%, 3/15/21 | 110 | 106,700 |
| Little Traverse Bay Bands of Odawa Indians, 9.00%, 8/31/20 (b) | 282 | 276,360 |
| MCE Finance Ltd., 5.00%, 2/15/21 (b) | 352 | 340,560 |
| PNK Finance Corp., 6.38%, 8/01/21 (b) | 195 | 201,338 |
| Sabre, Inc., 8.50%, 5/15/19 (b) | 300 | 331,875 |
| Six Flags Entertainment Corp., 5.25%, 1/15/21 (b) | 218 | 213,640 |
| Tropicana Entertainment LLC/Tropicana Finance Corp., 9.63%, 12/15/14 (a)(e) | 220 | |
| Wynn Macau Ltd., 5.25%, 10/15/21 (b) | 205 | 207,050 |
| | | 2,818,923 |
| Household Durables 1.6% | | |
| Ashton Woods USA LLC/Ashton Woods Finance Co., 6.88%, 2/15/21 (b) | 190 | 186,200 |
| Beazer Homes USA, Inc., 6.63%, 4/15/18 | 340 | 365,500 |
| Brookfield Residential Properties, Inc., 6.50%, 12/15/20 (b) | 345 | 359,663 |
| Brookfield Residential Properties, Inc./Brookfield Residential US Corp., 6.13%, 7/01/22 (b) | 97 | 96,515 |
| K Hovnanian Enterprises, Inc., 7.25%, 10/15/20 (b) | 795 | 840,712 |
| KB Home, 7.25%, 6/15/18 | 330 | 361,350 |
| Libbey Glass, Inc., 6.88%, 5/15/20 | 80 | 85,400 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par (000) | Value |
|---|--------------|--------------|
| Corporate Bonds | | |
| Household Durables (concluded) | | |
| Standard Pacific Corp., 8.38%, 1/15/21 | \$ 1,120 | \$ 1,288,000 |
| Taylor Morrison Communities, Inc./Monarch Communities, Inc., 5.25%, 4/15/21 (b) | 223 | 215,195 |
| | | 3,798,535 |
| Household Products 0.1% | | |
| Spectrum Brands Escrow Corp. (b): | | |
| 6.38%, 11/15/20 | 90 | 95,850 |
| 6.63%, 11/15/22 | 105 | 111,825 |
| | | 207,675 |
| Independent Power Producers & Energy Traders 3.4% | | |
| Calpine Corp. (b): | | |
| 7.50%, 2/15/21 | 58 | 63,220 |
| 6.00%, 1/15/22 | 75 | 77,063 |
| 5.88%, 1/15/24 | 164 | 163,180 |
| Energy Future Intermediate Holding Co. LLC/EFIH Finance, Inc.: | | |
| 6.88%, 8/15/17 (b) | 282 | 289,050 |
| 10.00%, 12/01/20 (b) | 630 | 667,800 |
| 10.00%, 12/01/20 | 4,258 | 4,524,125 |
| 12.25%, 3/01/22 (b) | 427 | 495,320 |
| GenOn REMA LLC: | | |
| Series B, 9.24%, 7/02/17 | 88 | 91,100 |
| Series C, 9.68%, 7/02/26 | 448 | 461,440 |
| Laredo Petroleum, Inc.: | | |
| 9.50%, 2/15/19 | 495 | 551,925 |
| 7.38%, 5/01/22 | 185 | 200,262 |
| NRG Energy, Inc., 7.63%, 1/15/18 | 681 | 776,340 |
| | | 8,360,825 |
| Insurance 0.1% | | |
| CNO Financial Group, Inc., 6.38%, 10/01/20 (b) | | |
| | 114 | 121,980 |
| MPL 2 Acquisition Canco, Inc., 9.88%, 8/15/18 (b) | | |
| | 220 | 227,150 |
| | | 349,130 |
| Internet Software & Services 0.1% | | |
| IAC/InterActiveCorp, 4.88%, 11/30/18 (b) | | |
| | 184 | 187,910 |
| IT Services 1.2% | | |
| Ceridian Corp., 8.88%, 7/15/19 (b) | | |
| | 1,155 | 1,335,469 |
| First Data Corp. (b): | | |
| 7.38%, 6/15/19 | 845 | 904,150 |
| 6.75%, 11/01/20 | 565 | 591,837 |
| WEX, Inc., 4.75%, 2/01/23 (b) | 206 | 190,035 |
| | | 3,021,491 |
| Corporate Bonds | | |
| Machinery 0.0% | | |
| Trinseo Materials Operating SCA/Trinseo Materials Finance, Inc., 8.75%, 2/01/19 (b) | | |
| | \$ 63 | \$ 64,260 |
| Media 4.5% | | |
| AMC Networks, Inc., 7.75%, 7/15/21 | | |
| | 320 | 360,000 |
| Cengage Learning Acquisitions, Inc., 11.50%, 4/15/20 (a)(b)(e) | | |
| | 254 | 196,850 |
| Checkout Holding Corp., 10.72%, 11/15/15 (b)(h) | | |
| | 296 | 241,240 |
| Clear Channel Worldwide Holdings, Inc.: | | |
| 7.63%, 3/15/20 | 412 | 434,660 |
| 6.50%, 11/15/22 | 1,461 | 1,510,335 |
| DISH DBS Corp.: | | |
| 4.25%, 4/01/18 | 500 | 508,750 |

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| | | |
|---|-------|-----------|
| 5.88%, 7/15/22 | 700 | 708,750 |
| DreamWorks Animation SKG, Inc., 6.88%, 8/15/20 (b) | 114 | 121,125 |
| Gannett Co., Inc. (b): | | |
| 5.13%, 10/15/19 | 71 | 73,219 |
| 5.13%, 7/15/20 | 81 | 82,620 |
| 6.38%, 10/15/23 | 113 | 117,803 |
| Gray Television, Inc., 7.50%, 10/01/20 (b) | 160 | 168,400 |
| Intelsat Jackson Holdings SA: | | |
| 7.25%, 10/15/20 | 1,230 | 1,343,775 |
| 5.50%, 8/01/23 (b) | 384 | 367,680 |
| Live Nation Entertainment, Inc., 7.00%, 9/01/20 (b) | 69 | 74,520 |
| The McClatchy Co., 9.00%, 12/15/22 | 120 | 130,200 |
| MDC Partners, Inc., 6.75%, 4/01/20 (b) | 186 | 193,440 |
| Midcontinent Communications & Midcontinent Finance Corp., 6.25%, 8/01/21 (b) | 90 | 91,350 |
| NAI Entertainment Holdings/NAI Entertainment Holdings Finance Corp., 5.00%, 8/01/18 (b) | 155 | 160,037 |
| Nielsen Finance LLC/Nielsen Finance Co., 7.75%, 10/15/18 | 341 | 370,837 |
| ProQuest LLC / ProQuest Notes Co., 9.00%, 10/15/18 (b) | 75 | 76,781 |
| Sirius XM Holdings, Inc. (b): | | |
| 5.88%, 10/01/20 | 132 | 136,125 |
| 5.75%, 8/01/21 | 158 | 159,975 |
| 4.63%, 5/15/23 | 117 | 104,423 |
| Sterling Entertainment Corp., 10.00%, 12/15/19 | 450 | 450,000 |
| Townsquare Radio LLC / Townsquare Radio, Inc., 9.00%, 4/01/19 (b) | 296 | 318,200 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

5

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|--------------|--------------|
| | (000) | Value |
| Corporate Bonds | | |
| Media (concluded) | | |
| Unitymedia Hessen GmbH & Co. KG/Unitymedia NRW GmbH: | | |
| 7.50%, 3/15/19 | \$ 540 | \$ 587,250 |
| 5.50%, 1/15/23 (b) | 440 | 429,000 |
| Univision Communications, Inc., 6.75%, 9/15/22 (b) | 107 | 117,700 |
| Virgin Media Secured Finance PLC, 6.50%, 1/15/18 | 1,250 | 1,295,312 |
| | | 10,930,357 |
| Metals & Mining 2.3% | | |
| ArcelorMittal: | | |
| 9.50%, 2/15/15 | 715 | 779,350 |
| 4.25%, 8/05/15 | 275 | 284,625 |
| 5.00%, 2/25/17 | 130 | 137,963 |
| 6.13%, 6/01/18 | 186 | 202,043 |
| Commercial Metals Co., 4.88%, 5/15/23 | 347 | 323,577 |
| FMG Resources August 2006 Property Ltd. (b): | | |
| 7.00%, 11/01/15 | 80 | 82,900 |
| 6.00%, 4/01/17 | 40 | 42,400 |
| Global Brass & Copper, Inc., 9.50%, 6/01/19 | 255 | 284,962 |
| Kaiser Aluminum Corp., 8.25%, 6/01/20 | 190 | 215,175 |
| New Gold, Inc., 6.25%, 11/15/22 (b) | 255 | 250,537 |
| Novelis, Inc., 8.75%, 12/15/20 | 2,328 | 2,607,360 |
| Perstorp Holding AB, 8.75%, 5/15/17 (b) | 205 | 219,350 |
| RathGibson, Inc., 11.25%, 2/15/14 (a)(e) | 2,175 | |
| Steel Dynamics, Inc., 6.38%, 8/15/22 | 205 | 222,938 |
| | | 5,653,180 |
| Multiline Retail 0.1% | | |
| Dufry Finance SCA, 5.50%, 10/15/20 (b) | 228 | 234,840 |
| Oil, Gas & Consumable Fuels 6.0% | | |
| Access Midstream Partners LP/ACMP Finance Corp., 4.88%, 5/15/23 | 170 | 166,600 |
| Alpha Natural Resources, Inc., 6.25%, 6/01/21 | 79 | 67,743 |
| Antero Resources Finance Corp., 5.38%, 11/01/21 (b) | 289 | 291,890 |
| Bonanza Creek Energy, Inc., 6.75%, 4/15/21 | 61 | 64,508 |
| Chaparral Energy, Inc., 7.63%, 11/15/22 | 115 | 124,488 |
| | Par | |
| | (000) | Value |
| Corporate Bonds | | |
| Oil, Gas & Consumable Fuels (continued) | | |
| Chesapeake Energy Corp.: | | |
| 7.25%, 12/15/18 | \$ 22 | \$ 25,300 |
| 6.63%, 8/15/20 | 271 | 303,520 |
| 6.88%, 11/15/20 | 150 | 168,562 |
| 6.13%, 2/15/21 | 3 | 3,225 |
| Concho Resources, Inc., 6.50%, 1/15/22 | 219 | 237,067 |
| CONSOL Energy, Inc.: | | |
| 8.00%, 4/01/17 | 29 | 30,668 |
| 8.25%, 4/01/20 | 975 | 1,060,312 |
| Crosstex Energy LP / Crosstex Energy Finance Corp., 8.88%, 2/15/18 | 195 | 205,725 |
| Energy XXI Gulf Coast, Inc., 7.75%, 6/15/19 | 665 | 711,550 |
| EP Energy LLC/Everest Acquisition Finance, Inc., Series W1, 6.88%, 5/01/19 | 235 | 253,212 |
| Halcon Resources Corp., 8.88%, 5/15/21 | 351 | 356,265 |
| Hilcorp Energy I LP/Hilcorp Finance Co., 7.63%, 4/15/21 (b) | 470 | 509,950 |
| Holly Energy Partners LP/Holly Energy Finance Corp., 6.50%, 3/01/20 | 80 | 83,800 |
| Kinder Morgan Finance Co. LLC, 6.00%, 1/15/18 (b) | 480 | 527,761 |
| Kinder Morgan, Inc., 5.63%, 11/15/23 (b) | 250 | 245,952 |
| Kodiak Oil & Gas Corp., 8.13%, 12/01/19 | 550 | 609,125 |
| Linn Energy LLC/Linn Energy Finance Corp.: | | |

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| | | |
|---|-----|---------|
| 8.63%, 4/15/20 | 732 | 783,240 |
| 7.75%, 2/01/21 | 150 | 155,625 |
| Memorial Production Partners LP/Memorial Production Finance Corp., 7.63%, 5/01/21 | 127 | 130,493 |
| Northern Oil and Gas, Inc., 8.00%, 6/01/20 | 233 | 244,067 |
| Oasis Petroleum, Inc.: | | |
| 7.25%, 2/01/19 | 135 | 145,463 |
| 6.50%, 11/01/21 | 155 | 167,400 |
| 6.88%, 3/15/22 (b) | 180 | 193,500 |
| Offshore Group Investment Ltd., 7.13%, 4/01/23 | 246 | 253,380 |
| Pacific Drilling SA, 5.38%, 6/01/20 (b) | 223 | 225,230 |
| PBF Holding Co. LLC/PBF Finance Corp., 8.25%, 2/15/20 | 76 | 79,800 |
| PDC Energy, Inc., 7.75%, 10/15/22 | 155 | 167,788 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc.
(ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|--------|------------|
| | (000) | Value |
| Corporate Bonds | | |
| Oil, Gas & Consumable Fuels (concluded) | | |
| Penn Virginia Resource Partners LP/Penn Virginia Resource Finance Corp. II, 8.38%, 6/01/20 | \$ 165 | \$ 182,325 |
| Petrobras Global Finance BV, 3.00%, 1/15/19 | 288 | 273,538 |
| Range Resources Corp.: | | |
| 6.75%, 8/01/20 | 303 | 328,755 |
| 5.75%, 6/01/21 | 80 | 85,300 |
| RKI Exploration & Production LLC/RKI Finance Corp., 8.50%, 8/01/21 (b) | 57 | 59,565 |
| Rosetta Resources, Inc., 5.63%, 5/01/21 | 143 | 143,536 |
| Sabine Pass Liquefaction LLC (b): | | |
| 5.63%, 2/01/21 | 869 | 858,137 |
| 5.63%, 4/15/23 | 281 | 266,247 |
| Sabine Pass LNG LP: | | |
| 7.50%, 11/30/16 | 1,490 | 1,683,700 |
| 6.50%, 11/01/20 | 275 | 284,625 |
| SandRidge Energy, Inc.: | | |
| 8.75%, 1/15/20 | 35 | 37,800 |
| 7.50%, 2/15/23 | 411 | 419,220 |
| SESI LLC, 6.38%, 5/01/19 | 174 | 185,310 |
| SM Energy Co.: | | |
| 6.63%, 2/15/19 | 22 | 23,320 |
| 6.50%, 11/15/21 | 225 | 240,750 |
| Summit Midstream Holdings LLC/Summit Midstream Finance Corp., 7.50%, 7/01/21 (b) | 240 | 250,800 |
| Tesoro Logistics LP/Tesoro Logistics Finance Corp., 5.88%, 10/01/20 | 66 | 67,815 |
| Whiting Petroleum Corp., 5.00%, 3/15/19 | 536 | 548,060 |
| | | 14,532,012 |
| Paper & Forest Products 0.2% | | |
| Ainsworth Lumber Co. Ltd., 7.50%, 12/15/17 (b) | 256 | 275,840 |
| Sappi Papier Holding GmbH, 8.38%, 6/15/19 (b) | 200 | 218,000 |
| | | 493,840 |
| Pharmaceuticals 0.5% | | |
| Capsugel SA, 7.00%, 5/15/19 (b)(c) | 59 | 60,033 |
| Valeant Pharmaceuticals International (b): | | |
| 6.75%, 8/15/18 | 334 | 367,817 |
| 6.38%, 10/15/20 | 228 | 240,255 |
| 5.63%, 12/01/21 (g) | 191 | 191,955 |
| | Par | |
| Corporate Bonds | | |
| Pharmaceuticals (concluded) | | |
| Valeant Pharmaceuticals International (b) (concluded): | | |
| 7.25%, 7/15/22 | \$ 350 | \$ 377,125 |
| | | 1,237,185 |
| Real Estate Investment Trusts (REITs) 0.4% | | |
| Cantor Commercial Real Estate Co. LP/CCRE Finance Corp., 7.75%, 2/15/18 (b) | 236 | 249,570 |
| Felcor Lodging LP: | | |
| 6.75%, 6/01/19 | 484 | 517,880 |
| 5.63%, 3/01/23 | 109 | 106,275 |
| iStar Financial, Inc., 4.88%, 7/01/18 | 169 | 168,155 |
| | | 1,041,880 |
| Real Estate Management & Development 1.0% | | |
| Realogy Corp., 7.63%, 1/15/20 (b) | 1,130 | 1,262,775 |
| The Realogy Group LLC/Sunshine Group Florida Ltd., 3.38%, 5/01/16 (b) | 284 | 284,710 |

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| | | |
|--|-------|-----------|
| Rialto Holdings LLC/Rialto Corp., 7.00%, 12/01/18 (b) | 85 | 85,000 |
| Shea Homes LP/Shea Homes Funding Corp., 8.63%, 5/15/19 | 790 | 872,950 |
| | | 2,505,435 |
| Road & Rail 1.4% | | |
| Avis Budget Car Rental LLC/Avis Budget Finance, Inc., 1.00%, 12/01/17 (b)(d) | 64 | 63,840 |
| The Hertz Corp.: | | |
| 7.50%, 10/15/18 | 780 | 843,375 |
| 6.75%, 4/15/19 | 150 | 161,625 |
| 5.88%, 10/15/20 | 235 | 243,812 |
| 7.38%, 1/15/21 | 1,742 | 1,911,845 |
| Watco Cos. LLC/Watco Finance Corp., 6.38%, 4/01/23 (b) | 120 | 119,700 |
| | | 3,344,197 |
| Semiconductors & Semiconductor Equipment 0.3% | | |
| NXP BV/NXP Funding LLC (b): | | |
| 3.75%, 6/01/18 | 355 | 357,662 |
| 5.75%, 2/15/21 | 275 | 286,344 |
| | | 644,006 |
| Software 1.0% | | |
| Activision Blizzard, Inc. (b): | | |
| 5.63%, 9/15/21 | 175 | 181,781 |
| 6.13%, 9/15/23 | 61 | 63,898 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|--------------|--------------|
| | (000) | Value |
| Corporate Bonds | | |
| Software (concluded) | | |
| Healthcare Technology Intermediate, Inc., 7.38%, 9/01/18 (b)(c) | \$ 112 | \$ 115,080 |
| Infor US, Inc., 9.38%, 4/01/19 | 1,295 | 1,460,112 |
| Nuance Communications, Inc., 5.38%, 8/15/20 (b) | 700 | 659,750 |
| | | 2,480,621 |
| Specialty Retail 0.4% | | |
| Claire's Stores, Inc., 9.00%, 3/15/19 (b) | 496 | 554,900 |
| Sally Holdings LLC/Sally Capital, Inc., 6.88%, 11/15/19 | 350 | 387,188 |
| Sonic Automotive, Inc., 5.00%, 5/15/23 | 50 | 46,500 |
| | | 988,588 |
| Textiles, Apparel & Luxury Goods 0.2% | | |
| Levi Strauss & Co., 6.88%, 5/01/22 | 140 | 152,950 |
| SIWF Merger Sub, Inc., 6.25%, 6/01/21 (b) | 235 | 236,175 |
| The William Carter Co., 5.25%, 8/15/21 (b) | 132 | 134,310 |
| | | 523,435 |
| Trading Companies & Distributors 0.2% | | |
| Doric Nimrod Air Finance Alpha Ltd. Pass-Through Trust, Series 2012-1, Class A, 5.13%, 11/30/24 (b) | 427 | 433,058 |
| Transportation Infrastructure 0.1% | | |
| Aguila 3 SA, 7.88%, 1/31/18 (b) | 176 | 186,780 |
| Wireless Telecommunication Services 3.7% | | |
| Digicel Ltd., 6.00%, 4/15/21 (b) | 1,082 | 1,044,130 |
| Sprint Communications, Inc. (b): | | |
| 9.00%, 11/15/18 | 2,081 | 2,518,010 |
| 7.00%, 3/01/20 | 1,931 | 2,148,237 |
| Sprint Corp., 7.88%, 9/15/23 (b) | 1,362 | 1,491,390 |
| T-Mobile USA, Inc.: | | |
| 6.63%, 4/28/21 | 705 | 738,487 |
| 6.13%, 1/15/22 | 80 | 81,500 |
| 6.73%, 4/28/22 | 675 | 703,688 |
| 6.50%, 1/15/24 | 145 | 146,813 |
| Wind Acquisition Finance SA, 6.50%, 4/30/20 (b) | 200 | 211,000 |
| | | 9,083,255 |
| Total Corporate Bonds 55.5% | | 135,202,185 |
| | Par | |
| Floating Rate Loan Interests | | |
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Aerospace & Defense 0.9% | | |
| DigitalGlobe, Inc., Term Loan B, 3.75%, 1/31/20 | \$ 483 | \$ 486,798 |
| Transdigm, Inc., Term Loan C, 3.75%, 2/28/20 | 243 | 244,196 |
| TransUnion LLC, Term Loan, 4.25%, 2/10/19 | 1,442 | 1,449,920 |
| | | 2,180,914 |
| Airlines 0.8% | | |
| Delta Air Lines, Inc., Term Loan B1, 4.00%, 10/18/18 | 991 | 994,860 |
| Northwest Airlines, Inc.: | | |
| 2.24%, 3/10/17 | 198 | 182,246 |
| 1.62%, 9/10/18 | 260 | 228,714 |
| US Airways Group, Inc., Term Loan B1, 4.25%, 5/23/19 | 440 | 441,320 |
| | | 1,847,140 |

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Auto Components 2.6%

| | | |
|---|-------|-----------|
| Affinia Group Intermediate Holdings, Inc., Term Loan B2, 4.75%, 4/27/20 | 339 | 343,389 |
| Autoparts Holdings Ltd.: | | |
| 1st Lien Term Loan, 6.50%, 7/28/17 | 834 | 818,635 |
| 2nd Lien Term Loan, 10.50%, 1/29/18 | 900 | 837,000 |
| Federal-Mogul Corp.: | | |
| Term Loan B, 2.11%, 12/29/14 | 1,468 | 1,449,386 |
| Term Loan C, 2.11%, 12/28/15 | 1,037 | 1,023,535 |
| FleetPride Corp., 1st Lien Term Loan, 5.25%, 11/19/19 | 337 | 330,701 |
| The Goodyear Tire & Rubber Co., 2nd Lien Term Loan, 4.75%, 4/30/19 | 1,110 | 1,119,713 |
| Schaeffler AG, Term Loan C, 4.25%, 1/27/17 | 50 | 50,271 |
| Transtar Holding Co., 1st Lien Term Loan, 5.50%, 10/09/18 | 475 | 469,260 |

6,441,890

Biotechnology 0.2%

| | | |
|--|-----|---------|
| Grifols, Inc., Term Loan B, 4.25%, 6/01/17 | 559 | 561,279 |
|--|-----|---------|

Building Products 1.0%

| | | |
|---|-----|---------|
| Armstrong World Industries, Inc., Term Loan B, 3.50%, 3/16/20 | 249 | 248,362 |
|---|-----|---------|

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|--------|------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Building Products (concluded) | | |
| Continental Building Products LLC, 1st Lien Term Loan, 4.50%, 8/14/20 | \$ 345 | \$ 343,275 |
| CPG International, Inc., Term Loan, 4.75%, 9/30/20 | 680 | 680,850 |
| Quikrete Holdings, Inc., 1st Lien Term Loan, 4.00%, 9/28/20 | 270 | 271,061 |
| Wilsonart International Holdings LLC: | | |
| Incremental Term Loan B2, 4.00%, 10/31/19 | 140 | 138,250 |
| Term Loan B, 4.00%, 10/31/19 | 744 | 737,244 |
| | | 2,419,042 |
| Capital Markets 0.3% | | |
| American Capital Holdings, Inc., Term Loan, 4.00%, 8/22/16 | 206 | 206,608 |
| HarbourVest Partners LLC, Term Loan B, 4.75%, 11/21/17 | 298 | 299,244 |
| KCG Holdings, Inc., Term Loan B, 5.75%, 12/05/17 | 260 | 260,834 |
| | | 766,686 |
| Chemicals 3.0% | | |
| Allnex USA, Inc.: | | |
| Term Loan B1, 4.50%, 10/03/19 | 243 | 243,907 |
| Term Loan B2, 4.50%, 10/03/19 | 126 | 126,552 |
| American Rock Salt Holdings LLC, Term Loan, 5.50%, 4/25/17 | 194 | 195,506 |
| Chemtura Corp., Term Loan B, 3.50%, 8/27/16 | 605 | 608,069 |
| Evergreen Acqco 1 LP, Term Loan, 5.00%, 7/09/19 | 420 | 420,588 |
| General Chemical Corp., Term Loan, 5.00%, 10/06/15 | 305 | 306,134 |
| INEOS US Finance LLC, 6 Year Term Loan, 4.00%, 5/04/18 (d) | 389 | 389,989 |
| MacDermid, Inc., 1st Lien Term Loan, 3.16%, 6/08/20 | 334 | 335,833 |
| Nexeo Solutions LLC, Term Loan B, 5.00%, 9/08/17 | 912 | 906,098 |
| OXEA Finance LLC: | | |
| 2nd Lien Term Loan, 8.25%, 7/15/20 | 370 | 375,898 |
| Term Loan B2, 4.25%, 1/15/20 | 510 | 512,677 |
| | Par | |
| Floating Rate Loan Interests | | |
| Chemicals (concluded) | | |
| Royal Adhesives and Sealants LLC, 1st Lien Term Loan, 5.50%, 7/31/18 | \$ 298 | \$ 300,412 |
| Tata Chemicals North America, Inc., Term Loan B, 3.75%, 8/07/20 | 249 | 248,752 |
| Tronox Pigments (Netherlands) BV, 2013 Term Loan, 4.50%, 3/19/20 | 519 | 524,266 |
| Univar, Inc., Term Loan B, 5.00%, 6/30/17 | 248 | 244,357 |
| US Coatings Acquisition, Inc., Term Loan, 4.75%, 2/01/20 | 1,473 | 1,483,026 |
| | | 7,222,064 |
| Commercial Banks 0.4% | | |
| Fly Funding II Sarl, Term Loan B, 4.50%, 8/08/18 | 50 | 50,281 |
| Redtop Acquisitions Ltd.: | | |
| 1st Lien Term Loan, 3.27%, 11/30/20 | 205 | 205,769 |
| 2nd Lien Term Loan, 8.25%, 5/31/21 | 130 | 130,650 |
| Santander Asset Management, Term Loan, 0.00%, 11/11/20 | 550 | 550,000 |
| | | 936,700 |
| Commercial Services & Supplies 2.3% | | |
| ADS Waste Holdings, Inc., Term Loan B, 4.25%, 10/09/19 | 907 | 910,889 |
| AWAS Finance Luxembourg 2012 SA, Term Loan, 3.50%, 7/16/18 | 150 | 150,153 |
| AWAS Finance Luxembourg Sarl, Term Loan B, 3.50%, 6/10/16 | 315 | 315,288 |
| Catalent Pharma Solutions, Inc., Term Loan, 6.50%, 12/29/17 | 215 | 217,419 |
| KAR Auction Services, Inc., Term Loan B, 3.75%, 5/19/17 | 1,196 | 1,199,974 |
| Learning Care Group (US) No. 2, Inc., Term Loan B, 6.00%, 5/08/19 | 105 | 104,761 |
| Livingston International, Inc., 1st Lien Term Loan, 5.00%, 4/16/19 | 289 | 288,913 |
| Progressive Waste Solutions Ltd., Term Loan B, 3.50%, 10/24/19 | 293 | 292,787 |

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| | | |
|---|-----|---------|
| Protection One, Inc., Term Loan, 4.25%, 3/21/19 | 502 | 501,515 |
| Spin Holdco, Inc., Term Loan B, 4.25%, 11/14/19 | 885 | 885,558 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|--------------|--------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Commercial Services & Supplies (concluded) | | |
| West Corp., Term Loan B8, 3.75%, 6/29/18 | \$ 641 | \$ 643,772 |
| | | 5,511,029 |
| Communications Equipment 2.1% | | |
| Alcatel-Lucent USA, Inc., Term Loan C, 5.75%, 1/30/19 | 2,030 | 2,046,164 |
| Avaya, Inc.: | | |
| Extended Term Loan B3, 4.74%, 10/26/17 | 724 | 692,957 |
| Term Loan B5, 8.00%, 3/30/18 | 97 | 96,287 |
| CommScope, Inc., Term Loan, 3.75%, 1/12/18 | 815 | 814,949 |
| Riverbed Technology, Inc., Term Loan, 4.00%, 12/18/19 | 335 | 337,301 |
| Zayo Group LLC, Term Loan B, 4.00%, 7/02/19 | 1,228 | 1,226,712 |
| | | 5,214,370 |
| Construction & Engineering 0.6% | | |
| BakerCorp International, Inc., Term Loan, 4.25%, 2/14/20 | 670 | 665,966 |
| Centaur LLC, 1st Lien Term Loan, 5.25%, 2/20/19 | 537 | 542,673 |
| USIC Holdings, Inc., 1st Lien Term Loan, 4.75%, 7/10/20 | 249 | 250,310 |
| | | 1,458,949 |
| Construction Materials 1.3% | | |
| Filtration Group Corp.: | | |
| 1st Lien Term Loan, 0.00%, 11/30/20 | 205 | 206,451 |
| 2nd Lien Term Loan, 0.00%, 11/30/21 | 220 | 223,575 |
| HD Supply, Inc., Senior Debt B, 4.50%, 10/12/17 | 2,481 | 2,494,056 |
| McJunkin Red Man Corp., Term Loan, 0.00%, 11/12/19 | 140 | 141,007 |
| | | 3,065,089 |
| Consumer Finance 0.3% | | |
| Springleaf Financial Funding Co., Term Loan B2, 4.75%, 9/25/19 | 630 | 636,300 |
| Containers & Packaging 0.9% | | |
| Pact Group (USA), Inc., Term Loan B, 3.75%, 5/29/20 | 893 | 884,397 |
| Polarpak, Inc., 1st Lien Canadian Borrower, 4.50%, 6/05/20 | 113 | 113,272 |
| Sealed Air Corp., 2013 Term Loan, 4.00%, 10/03/18 | 314 | 314,406 |
| Tekni-Plex, Inc., Term Loan B, 5.50%, 8/25/19 | 743 | 743,137 |
| | Par | |
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Containers & Packaging (concluded) | | |
| WNA Holdings, Inc., 1st Lien US Borrower, 4.50%, 6/05/20 | \$ 61 | \$ 61,531 |
| | | 2,116,743 |
| Distributors 0.7% | | |
| ABC Supply Co., Inc., Term Loan, 3.50%, 4/16/20 | 1,125 | 1,123,594 |
| Crossmark Holdings, Inc., 1st Lien Term Loan, 4.50%, 12/20/19 | 223 | 222,196 |
| VWR Funding, Inc., Extended Add on Term Loan, 4.16%, 4/03/17 | 263 | 263,670 |
| | | 1,609,460 |
| Diversified Consumer Services 1.1% | | |
| Bright Horizons Family Solutions, Inc., Term Loan B, 4.00%, 1/30/20 | 536 | 538,298 |
| Doncasters Finance US LLC, Term Loan, 5.50%, 4/09/20 | 209 | 210,649 |
| Garda World Security Corp., Term Loan B, 4.00%, 11/06/20 | 388 | 389,672 |
| ROC Finance LLC, Term Loan, 5.00%, 5/15/19 | 230 | 220,082 |
| ServiceMaster Co., Term Loan, 4.25%, 1/31/17 | 699 | 687,885 |
| Weight Watchers International, Inc., Term Loan B2, 3.75%, 4/02/20 | 726 | 622,952 |

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| | | |
|---|-------------|-----------|
| | | 2,669,538 |
| Diversified Financial Services | 1.2% | |
| ION Trading Technologies Sarl, 1st Lien Term Loan, 4.50%, 5/22/20 | 379 | 380,710 |
| Kasima LLC, Term Loan B, 3.25%, 5/17/21 | 425 | 423,674 |
| Reynolds Group Holdings, Inc., Dollar Term Loan, 4.00%, 12/31/18 | 1,128 | 1,134,653 |
| RPI Finance Trust, Term Loan B3, 3.50%, 11/09/18 | 166 | 166,588 |
| WMG Acquisition Corp., Term Loan, 3.75%, 7/01/20 | 750 | 749,062 |
| | | 2,854,687 |
| Diversified Telecommunication Services | 2.8% | |
| Consolidated Communications, Inc., Term Loan B3, 5.25%, 12/31/18 | 873 | 878,029 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|------------|------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Diversified Telecommunication Services (concluded) | | |
| Hawaiian Telecom Communications, Inc., Term Loan B, 5.00%, 6/06/19 | \$ 861 | \$ 862,742 |
| Integra Telecom, Inc., 1st Lien Term Loan, 5.25%, 2/22/19 | 438 | 442,042 |
| Level 3 Financing, Inc., 2020 Term Loan B, 4.00%, 1/15/20 | 2,980 | 2,998,625 |
| Syniverse Holdings, Inc., Term Loan B, 4.00%, 4/23/19 | 422 | 424,378 |
| US Telepacific Corp., Term Loan B, 5.75%, 2/23/17 | 1,350 | 1,347,867 |
| | | 6,953,683 |
| Electric Utilities 0.1% | | |
| Sandy Creek Energy Associates, L.P., Term Loan B, 5.00%, 11/06/20 | 210 | 210,573 |
| Electronic Equipment, Instruments & Components 0.2% | | |
| CDW LLC, Term Loan, 3.50%, 4/29/20 | 498 | 495,013 |
| Energy Equipment & Services 0.8% | | |
| Dynegy Holdings, Inc., Term Loan B2, 4.00%, 4/23/20 | 519 | 519,239 |
| MEG Energy Corp., Refinancing Term Loan, 3.75%, 3/31/20 | 1,220 | 1,228,031 |
| Unifrax Corp., Term Loan, 4.25%, 11/28/18 | 208 | 208,727 |
| | | 1,955,997 |
| Food & Staples Retailing 0.5% | | |
| Rite Aid Corp.: | | |
| 2nd Lien Term Loan, 5.75%, 8/21/20 | 225 | 230,344 |
| Term Loan 6, 4.00%, 2/21/20 | 209 | 210,404 |
| Supervalu, Inc., Refinancing Term Loan B, 5.00%, 3/21/19 | 487 | 488,644 |
| US Foods, Inc., Refinancing Term Loan, 4.50%, 3/29/19 | 204 | 204,999 |
| | | 1,134,391 |
| Food Products 2.2% | | |
| AdvancePierre Foods, Inc., Term Loan, 5.75%, 7/10/17 | 506 | 502,885 |
| CTI Foods Holding Co. LLC, 1st Lien Term Loan, 4.50%, 6/29/20 | 345 | 345,000 |
| Del Monte Foods Co., Term Loan: | | |
| 1st Lien, 0.00%, 11/06/20 | 315 | 316,575 |
| 4.00%, 3/08/18 | 626 | 628,279 |
| Dole Food Co., Inc., Term Loan B, 4.50%, 11/01/18 | 570 | 572,531 |
| | Par | |
| Floating Rate Loan Interests | | |
| Food Products (concluded) | | |
| GFA Brands, Inc., Term Loan B, 5.00%, 7/09/20 | \$ 209 | \$ 209,999 |
| Performance Food Group Co., 2nd Lien Term Loan, 6.25%, 11/14/19 | 843 | 839,727 |
| Pinnacle Foods Finance LLC: | | |
| Incremental Term Loan H, 3.25%, 4/29/20 | 160 | 159,755 |
| Term Loan G, 3.25%, 4/29/20 | 672 | 670,617 |
| Reddy Ice Corp., 1st Lien Term Loan, 6.75%, 5/01/19 | 1,070 | 1,068,962 |
| | | 5,314,330 |
| Gas Utilities 0.1% | | |
| EFS Cogen Holdings I, Inc., Term Loan B, 0.00%, 12/01/20 | 300 | 300,000 |
| Health Care Equipment & Supplies 2.7% | | |
| Arysta LifeScience Corp., 1st Lien Term Loan, 4.50%, 5/29/20 | 843 | 846,579 |
| Biomet, Inc., Term Loan B2, 3.67%, 7/25/17 | 763 | 768,689 |
| Capital Safety North America Holding, Inc., Term Loan, 4.50%, 1/21/19 | 665 | 663,251 |
| CeramTec Acquisition Corp., Term Loan B2, 4.25%, 8/28/20 | 25 | 25,346 |
| DJO Finance LLC, Term Loan B3, 4.75%, 9/15/17 | 1,254 | 1,266,154 |
| The Hologic, Inc., Term Loan B, 3.75%, 8/01/19 | 972 | 975,254 |
| Iasis Healthcare LLC, Term Loan B2, 4.50%, 5/03/18 | 98 | 98,636 |
| Immucor, Inc., Refinancing Term Loan B2, 5.00%, 8/17/18 | 960 | 963,348 |
| Kinetic Concepts, Inc., Term Loan D1, 4.50%, 5/04/18 | 135 | 136,316 |

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| | | |
|---|-----|-----------|
| LHP Hospital Group, Inc., Term Loan, 9.00%, 7/03/18 | 395 | 369,325 |
| Onex Carestream Finance LP: | | |
| 1st Lien Term Loan, 5.00%, 6/07/19 | 390 | 394,174 |
| 2nd Lien Term Loan, 9.50%, 6/07/19 | 100 | 100,625 |
| | | 6,607,697 |
| Health Care Providers & Services 2.7% | | |
| American Renal Holdings, Inc., 1st Lien Term Loan, 4.50%, 9/20/19 | 557 | 555,807 |
| Ardent Medical Services, Inc., Term Loan, 6.75%, 7/02/18 | 268 | 267,305 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|------------|------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Health Care Providers & Services (concluded) | | |
| CHG Buyer Corp., Term Loan, 4.25%, 11/19/19 | \$ 375 | \$ 376,049 |
| ConvaTec, Inc., Term Loan, 4.00%, 12/22/16 | 1,035 | 1,040,071 |
| DaVita, Inc.: | | |
| Term Loan B, 4.50%, 10/20/16 | 1,070 | 1,074,831 |
| Term Loan B2, 4.00%, 11/01/19 | 586 | 588,649 |
| Envision Healthcare Corp., Term Loan, 4.00%, 5/25/18 | 338 | 338,774 |
| Genesis HealthCare Corp., Term Loan B, 10.00%, 9/25/17 | 457 | 462,039 |
| Ikaria Acquisition, Inc., 1st Lien Term Loan, 7.25%, 7/03/18 | 267 | 268,625 |
| inVentiv Health, Inc.: | | |
| Combined Term Loan, 7.50%, 8/04/16 | 260 | 256,766 |
| Incremental Term Loan B3, 7.75%, 5/15/18 | 333 | 329,485 |
| Surgical Care Affiliates, Inc., Class C Incremental Term Loan, 4.25%, 6/29/18 | 404 | 404,997 |
| US Renal Care, Inc., Incremental 1st Lien Term Loan, 5.25%, 7/03/19 | 548 | 552,997 |
| | | 6,516,395 |
| Health Care Technology 0.6% | | |
| IMS Health, Inc., Term Loan B1, 3.75%, 9/01/17 | 1,372 | 1,375,724 |
| MedAssets, Inc., Term Loan B, 4.00%, 12/13/19 | 196 | 196,057 |
| | | 1,571,781 |
| Hotels, Restaurants & Leisure 7.7% | | |
| Bally Technologies, Inc., Term Loan B, 0.00%, 8/31/20 | 430 | 432,507 |
| Bronco Midstream Funding LLC, Term Loan B, 5.00%, 8/17/20 | 700 | 707,000 |
| Caesars Entertainment Resort Properties, LLC, Term Loan B, 7.00%, 10/12/20 | 6,575 | 6,455,861 |
| Drumm Investors LLC, Term Loan, 5.00%, 5/04/18 | 541 | 526,964 |
| Four Seasons Holdings, Inc., 2nd Lien Term Loan, 6.25%, 12/28/20 | 305 | 312,244 |
| Hilton Worldwide Finance, LLC, Term Loan B2, 4.00%, 10/26/20 | 3,422 | 3,431,735 |
| Intrawest ULC, Term Loan, 0.00%, 11/26/20 | 345 | 345,431 |
| | Par | |
| Floating Rate Loan Interests | | |
| Hotels, Restaurants & Leisure (concluded) | | |
| Marina District Finance Co., Inc., Term Loan B, 0.00%, 8/15/18 | \$ 505 | \$ 505,631 |
| MGM resorts International, Term Loan A, 2.91%, 12/20/17 | 248 | 248,021 |
| MGM Resorts International, Term Loan B, 3.50%, 12/20/19 | 660 | 659,188 |
| OSI Restaurant Partners LLC, Term Loan, 3.50%, 10/25/19 | 340 | 340,071 |
| Pinnacle Entertainment, Inc., Term Loan B2, 3.75%, 8/13/20 | 489 | 490,456 |
| Playa Resorts Holding BV, Term Loan B, 4.75%, 8/06/19 | 380 | 383,089 |
| Sabre, Inc.: | | |
| Incremental Term Loan, 4.50%, 2/19/19 | 220 | 219,589 |
| Term Loan B, 5.25%, 2/19/19 | 303 | 304,417 |
| Six Flags Theme Parks, Inc., Term Loan B, 4.00%, 12/20/18 | 205 | 205,691 |
| Station Casinos, Inc., Term Loan B, 5.00%, 3/02/20 | 1,577 | 1,593,177 |
| Travelport LLC, Refinancing Term Loan, 6.25%, 6/26/19 | 594 | 605,911 |
| Twin River Management Group, Inc., Term Loan B, 5.25%, 11/09/18 | 535 | 540,606 |
| Wendy's International, Inc., Term Loan B, 3.25%, 5/15/19 | 425 | 424,532 |
| | | 18,732,121 |
| Household Products 0.5% | | |
| Spectrum Brands, Inc.: | | |
| Term Loan, 4.50%, 12/17/19 | 660 | 662,322 |
| Term Loan A, 3.00%, 9/07/17 | 445 | 445,370 |
| Term Loan C, 3.50%, 9/04/19 | 90 | 90,223 |
| | | 1,197,915 |
| Independent Power Producers & Energy Traders 1.1% | | |

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| | | |
|--|-----|-----------|
| AES Corp., Refinancing Term Loan B, 3.75%, 6/01/18 | 724 | 728,133 |
| Calpine Construction Finance Co., L.P., Term Loan B1, 3.00%, 5/03/20 | 279 | 276,298 |
| Calpine Corp., Term Loan B1, 4.00%, 4/02/18 | 400 | 402,105 |
| La Frontera Generation LLC, Term Loan, 4.50%, 9/30/20 | 965 | 973,971 |
| Star West Generation LLC, Term Loan B, 4.25%, 3/13/20 | 388 | 390,475 |
| | | 2,770,982 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|--------------|--------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Industrial Conglomerates 0.4% | | |
| Sequa Corp., Term Loan B, 5.25%, 12/19/17 | \$ 1,123 | \$ 1,107,608 |
| Insurance 1.3% | | |
| Alliant Holdings I, Inc., Term Loan B, 4.75%, 12/20/19 | 397 | 397,746 |
| Asurion LLC, Term Loan B1, 4.50%, 5/24/19 | 571 | 570,294 |
| CNO Financial Group, Inc.: | | |
| Term Loan B1, 3.00%, 9/28/16 | 312 | 312,949 |
| Term Loan B2, 3.75%, 9/20/18 | 491 | 491,926 |
| Cooper Gay Swett & Crawford Ltd., 1st Lien Term Loan, 5.00%, 4/16/20 | 399 | 393,637 |
| Cunningham Lindsey US, Inc., 1st Lien Term Loan, 5.00%, 12/10/19 | 342 | 341,557 |
| Hub International Ltd., Term Loan B, 4.75%, 10/02/20 | 415 | 418,996 |
| National Financial Partners Corp., Term Loan, 5.25%, 7/01/20 | 165 | 166,439 |
| | | 3,093,544 |
| Internet Software & Services 0.7% | | |
| Interactive Data Corp., Term Loan B, 3.75%, 2/11/18 | 889 | 887,920 |
| W3 Co., 1st Lien Term Loan, 5.75%, 3/13/20 | 383 | 384,033 |
| Web.com Group, Inc., Term Loan B, 4.50%, 10/27/17 | 341 | 343,442 |
| | | 1,615,395 |
| IT Services 2.5% | | |
| CCC Information Services, Inc., Term Loan, 4.00%, 12/20/19 | 203 | 203,463 |
| Ceridian Corp., Term Loan B, 4.42%, 5/09/17 | 926 | 930,044 |
| First Data Corp., 2018 Term Loan: | | |
| 4.17%, 9/24/18 | 750 | 751,635 |
| Extended B, 4.17%, 3/23/18 | 3,059 | 3,064,680 |
| Genpact International, Inc., Term Loan B, 3.50%, 8/30/19 | 516 | 516,752 |
| InfoGroup, Inc., Term Loan, 8.00%, 5/25/18 | 336 | 272,227 |
| Moneygram International, Inc., Term Loan B, 4.25%, 3/27/20 | 68 | 68,785 |
| SunGard Data Systems, Inc.: | | |
| Term Loan D, 4.50%, 1/31/20 | 253 | 254,431 |
| Term Loan E, 4.00%, 3/09/20 | 164 | 165,406 |
| | | 6,227,423 |
| | Par | |
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Leisure Equipment & Products 0.1% | | |
| FGI Operating Co. LLC, Term Loan, 5.50%, 4/19/19 | \$ 281 | \$ 284,396 |
| Life Sciences Tools & Services 0.1% | | |
| Patheon, Inc., Term Loan, 7.25%, 12/06/18 | 262 | 264,811 |
| Machinery 3.0% | | |
| Allegion PLC, Term Loan B, 3.00%, 9/30/20 | 390 | 390,121 |
| Alliance Laundry Systems LLC, Refinancing Term Loan, 4.25%, 12/10/18 | 201 | 201,566 |
| Dayco Products LLC, Term Loan B, 5.25%, 11/26/19 | 420 | 416,850 |
| Faenza Acquisition GmbH: | | |
| Term Loan B1, 4.25%, 8/31/20 | 257 | 257,410 |
| Term Loan B3, 4.25%, 8/28/20 | 78 | 78,295 |
| Gardner Denver, Inc., Term Loan, 4.25%, 7/30/20 | 711 | 707,520 |
| Generac Power Systems, Inc., Term Loan B, 3.50%, 5/31/20 | 748 | 748,125 |
| Intelligrated, Inc., 1st Lien Term Loan, 4.50%, 7/30/18 | 396 | 396,990 |
| Mirror Bidco Corp., Term Loan, 5.25%, 12/27/19 | 536 | 538,405 |
| Navistar International Corp., Term Loan B, 5.75%, 8/17/17 | 609 | 618,357 |
| Pacific Industrial Services US Finco LLC: | | |
| 1st Lien Term Loan, 5.00%, 10/02/18 | 475 | 480,049 |
| 2nd Lien Term Loan, 8.75%, 4/02/19 | 365 | 372,300 |
| Rexnord LLC, 1st Lien Term Loan B, 4.00%, 8/21/20 | 452 | 451,646 |

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| | | |
|---|-----|-----------|
| Silver II US Holdings LLC, Term Loan, 4.00%, 12/13/19 | 834 | 832,958 |
| Wabash National Corp., Term Loan B, 4.50%, 5/02/19 | 873 | 876,626 |
| | | 7,367,218 |
| Marine 0.4% | | |
| HGIM Corp., Term Loan B, 5.50%, 6/18/20 | 865 | 868,244 |
| Media 8.1% | | |
| Activision Blizzard, Inc., Term Loan B, 3.25%, 10/12/20 | 650 | 651,423 |
| Capsugel Holdings US, Inc., Term Loan B, 3.50%, 8/01/18 | 537 | 535,755 |
| Catalina Marketing Corp., Term Loan B, 5.25%, 10/12/20 | 535 | 539,547 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|--------------|--------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Media (continued) | | |
| Cengage Learning Acquisitions, Inc.: | | |
| Non-Extended Term Loan, 4.75%, 7/03/14 | \$ 191 | \$ 143,352 |
| Tranche 1 Incremental, 7.50%, 7/03/14 | 657 | 494,135 |
| Charter Communications Operating LLC, Term Loan E, 3.00%, 7/01/20 | 688 | 678,336 |
| Cumulus Media Holdings, Inc., 1st Lien Term Loan, 4.50%, 9/17/18 | 1,049 | 1,054,052 |
| EMI Music Publishing Ltd., Term Loan B, 4.25%, 6/29/18 | 366 | 367,588 |
| EW Scripps Co., Term Loan B, 3.25%, 11/14/20 | 330 | 330,825 |
| Fender Musical Instruments Corp., 2019 Term Loan B, 5.75%, 4/03/19 | 96 | 97,080 |
| Foxco Acquisition Sub LLC, Term Loan B, 5.50%, 7/14/17 | 627 | 628,107 |
| Getty Images, Inc., Term Loan B, 4.75%, 10/18/19 | 132 | 122,206 |
| Gray Television, Inc., Term Loan B, 4.75%, 10/15/19 | 146 | 146,884 |
| Hemisphere Media Group, Inc., Term Loan, 6.25%, 7/30/20 | 474 | 475,296 |
| Houghton Mifflin Harcourt Publishing Co., DIP Term Loan B, 4.25%, 6/01/18 | 798 | 799,510 |
| Hubbard Radio LLC, Term Loan B, 4.50%, 4/29/19 | 477 | 480,574 |
| Intelsat Jackson Holdings SA, Term Loan B2, 2.00%, 6/30/19 | 5,126 | 5,132,628 |
| Lions Gate Entertainment Corp., 2nd Lien Term Loan, 5.00%, 7/17/20 | 210 | 210,263 |
| Live Nation Entertainment, Inc., 2020 Term Loan B1, 3.50%, 8/17/20 | 215 | 215,107 |
| Media General, Inc., Delayed Draw Term Loan B, 5.50%, 7/31/20 | 400 | 403,752 |
| NEP/NCP Holdco, Inc., Term Loan, 4.75%, 1/22/20 | 625 | 626,838 |
| Nielsen Finance LLC, Term Loan E, 2.92%, 5/02/16 | 220 | 220,226 |
| Rentpath, Inc., Term Loan B, 6.25%, 5/29/20 | 514 | 502,154 |
| Salem Communications Corp., Term Loan B, 4.50%, 3/13/20 | 375 | 375,828 |
| Sinclair Television Group, Inc., Term Loan B, 3.00%, 4/09/20 | 199 | 197,384 |
| | Par | |
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Media (concluded) | | |
| Springer Science & Business Media Deutschland GmbH, Term Loan B2, 5.00%, 8/14/20 | \$ 525 | \$ 526,423 |
| Tribune Co., 2013 Term Loan, 0.00%, 11/12/20 | 615 | 612,116 |
| TWCC Holding Corp., 2nd Lien Term Loan, 7.00%, 6/26/20 | 440 | 450,450 |
| Univision Communications, Inc., Converted Extended Term Loan, 4.50%, 3/02/20 | 1,023 | 1,027,328 |
| UPC Financing Partnership, Term Loan AH, 3.25%, 6/30/21 | 425 | 423,758 |
| Virgin Media Investment Holdings Ltd., Term Loan B, 3.50%, 6/08/20 | 980 | 979,922 |
| WideOpenWest Finance LLC, Term Loan B, 4.75%, 4/01/19 | 341 | 342,547 |
| | | 19,791,394 |
| Metals & Mining 2.9% | | |
| Ameriforge Group, Inc., 1st Lien Term Loan, 5.00%, 12/19/19 | 352 | 355,272 |
| API Heat Transfer, Inc., Term Loan, 5.25%, 5/03/19 | 358 | 355,961 |
| Constellium Holdco BV, Term Loan B, 6.00%, 3/25/20 | 786 | 804,719 |
| FMG Resources August 2006 Property Ltd., Term Loan, 4.25%, 6/28/19 | 1,742 | 1,757,646 |
| Murray Energy Corp., Term Loan B, 4.75%, 5/24/19 | 90 | 89,960 |
| Novelis, Inc., Term Loan, 3.75%, 3/10/17 | 1,965 | 1,973,559 |
| SunCoke Energy, Inc., Term Loan B, 4.00%, 7/26/18 | 258 | 256,228 |
| Walter Energy, Inc., Term Loan B, 6.75%, 4/02/18 | 870 | 851,008 |
| Windsor Financing LLC, Term Loan B, 6.25%, 12/05/17 | 581 | 594,480 |
| | | 7,038,833 |
| Multiline Retail 1.3% | | |
| 99 Cents Only Stores, Term Loan, 4.50%, 1/11/19 | 684 | 686,881 |
| Apex Tool Group LLC, Term Loan B, 4.50%, 1/31/20 | 458 | 458,464 |
| BJ's Wholesale Club, Inc., 1st Lien Term Loan, 4.50%, 9/26/19 | 511 | 512,595 |
| Hudson's Bay Co.: | | |
| 1st Lien Term Loan, 4.75%, 11/04/20 | 435 | 440,290 |
| 2nd Lien Term Loan, 8.25%, 11/04/21 | 65 | 66,733 |

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|--|------------|------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Multiline Retail (concluded) | | |
| JC Penney Corp., Inc., 1st Lien Term Loan, 6.00%, 5/22/18 | \$ 354 | \$ 345,830 |
| The Neiman Marcus Group, Inc., Term Loan, 5.00%, 10/26/20 | 660 | 663,960 |
| | | 3,174,753 |
| Oil, Gas & Consumable Fuels 3.7% | | |
| Brand Energy & Infrastructure Services, Inc., Term Loan B, 0.00%, 11/20/20 | 809 | 812,365 |
| Chesapeake Energy Corp., Unsecured Term Loan, 5.75%, 12/01/17 | 1,230 | 1,254,600 |
| Drillships Financing Holding, Inc., Term Loan B2, 5.50%, 7/15/16 | 783 | 792,176 |
| EP Energy LLC, Term Loan B3, 3.50%, 5/24/18 | 430 | 430,107 |
| Fieldwood Energy LLC, 1st Lien Term Loan, 3.88%, 9/28/18 | 245 | 246,492 |
| GIM Channelview Cogeneration LLC, Term Loan B, 4.25%, 5/08/20 | 434 | 436,624 |
| Obsidian Natural Gas Trust, Term Loan, 7.00%, 11/02/15 | 572 | 572,149 |
| Offshore Group Investment Ltd.: | | |
| 6.25%, 10/25/17 | 978 | 980,590 |
| 5.75%, 3/28/19 | 378 | 381,526 |
| Pacific Drilling SA, Term Loan B, 4.50%, 6/04/18 | 529 | 532,973 |
| Panda Temple II Power LLC, Term Loan B, 7.25%, 4/03/19 | 330 | 338,250 |
| Philadelphia Energy Solutions LLC, Term Loan B, 6.25%, 4/04/18 | 353 | 315,090 |
| PowerTeam Services LLC: | | |
| 1st Lien Term Loan, 4.25%, 5/06/20 | 186 | 183,815 |
| Delayed Draw Term Loan, 4.25%, 5/06/20 | 10 | 10,020 |
| Ruby Western Pipeline Holdings LLC, Term Loan B, 3.50%, 3/27/20 | 397 | 398,216 |
| Samson Investment Co., 2nd Lien Term Loan, 6.00%, 9/25/18 | 275 | 275,687 |
| Tesoro Corp., Term Loan B, 2.41%, 5/30/16 | 512 | 512,425 |
| Western Refining, Inc., Term Loan B, 0.00%, 11/12/20 | 620 | 625,041 |
| | | 9,098,146 |
| Paper & Forest Products 0.2% | | |
| NewPage Corp., Exit Term Loan, 7.75%, 12/21/18 | 438 | 446,550 |
| | Par | |
| Floating Rate Loan Interests | | |
| Pharmaceuticals 3.2% | | |
| Akorn, Inc., Term Loan B, 0.00%, 8/27/20 | \$ 390 | \$ 391,221 |
| Amneal Pharmaceuticals LLC, Term Loan, 7.00%, 11/01/19 | 305 | 305,000 |
| Aptalis Pharma, Inc., Term Loan B, 6.00%, 9/18/20 | 1,361 | 1,374,522 |
| Envision Acquisition Co. LLC, 1st Lien Term Loan, 5.75%, 11/04/20 | 445 | 446,112 |
| Par Pharmaceutical Cos., Inc., Refinancing Term Loan B, 4.25%, 9/30/19 | 1,733 | 1,739,896 |
| Pharmaceutical Product Development LLC, Term Loan B, 4.25%, 12/05/18 | 1,339 | 1,346,455 |
| Quintiles Transnational Corp., Term Loan B, 4.00%, 6/08/18 | 683 | 683,690 |
| Valeant Pharmaceuticals International, Inc.: | | |
| Series C2 Term Loan B, 3.75%, 12/11/19 | 617 | 621,267 |
| Series D2 Term Loan B, 3.75%, 2/13/19 | 647 | 651,610 |
| Term Loan E, 4.50%, 8/05/20 | 337 | 341,105 |
| | | 7,900,878 |
| Professional Services 1.1% | | |
| Emdeon Business Services LLC, Term Loan B2, 3.75%, 11/02/18 | 1,187 | 1,190,543 |
| ON Assignment, Inc., Refinancing Term Loan B, 3.50%, 4/30/20 | 229 | 228,503 |
| Sirva Worldwide, Inc., Term Loan, 7.50%, 3/27/19 | 398 | 404,965 |
| TriNet Group, Inc., Term Loan B2, 5.00%, 8/14/20 | 300 | 300,000 |
| Truven Health Analytics, Inc., Term Loan B, 4.50%, 6/06/19 | 553 | 554,636 |
| | | 2,678,647 |
| Real Estate Investment Trusts (REITs) 0.6% | | |
| iStar Financial, Inc., Term Loan, 4.50%, 10/16/17 | 1,173 | 1,178,068 |

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| | | |
|--|-----|-----------|
| Starwood Property Trust, Inc., Term Loan B, 0.00%, 4/17/20 | 235 | 233,973 |
| | | 1,412,041 |
| Real Estate Management & Development 1.4% | | |
| CityCenter Holdings LLC, Term Loan B, 5.00%, 10/16/20 | 540 | 545,908 |
| Realogy Corp.: | | |
| Extended Letter of Credit, 4.45%, 10/10/16 | 974 | 983,280 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|------------|--------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Real Estate Management & Development (concluded) | | |
| Realogy Corp. (concluded): | | |
| Extended Term Loan, 4.50%, 3/05/20 | \$ 1,775 | \$ 1,793,053 |
| | | 3,322,241 |
| Road & Rail 0.2% | | |
| Road Infrastructure Investment LLC, Term Loan B, 6.25%, 3/30/18 | 429 | 430,770 |
| Semiconductors & Semiconductor Equipment 0.7% | | |
| Freescale Semiconductor, Inc.: | | |
| Term Loan B3, 4.75%, 12/01/16 | 149 | 150,042 |
| Term Loan B4, 5.00%, 2/28/20 | 796 | 804,207 |
| Term Loan B5, 5.00%, 1/15/21 | 140 | 141,449 |
| NXP BV: | | |
| Term Loan C, 4.75%, 1/11/20 | 362 | 362,534 |
| Term Loan D, 3.25%, 1/10/20 | 365 | 365,274 |
| | | 1,823,506 |
| Software 2.2% | | |
| Blackboard, Inc., Term Loan B3, 4.75%, 10/04/18 | 146 | 147,426 |
| BMC Software Finance, Inc., Term Loan, 5.00%, 9/10/20 | 525 | 527,625 |
| Chromaflo Technologies Corp., 1st Lien Term Loan, 0.00%, 11/30/19 | 250 | 250,000 |
| CompuCom Systems, Inc., Refinancing Term Loan B, 4.25%, 5/11/20 | 110 | 109,121 |
| Evertec Group LLC, Term Loan B, 3.50%, 4/17/20 | 229 | 223,403 |
| GCA Services Group, Inc., Term Loan B, 5.25%, 11/01/19 | 400 | 399,845 |
| Infor US, Inc., Term Loan B2, 5.25%, 4/05/18 | 1,347 | 1,352,486 |
| Mitchell International, Inc., 1st Lien Term Loan, 4.50%, 10/12/20 | 240 | 241,500 |
| RP Crown Parent LLC, 1st Lien Term Loan, 6.75%, 12/21/18 | 452 | 455,634 |
| Sophia LP, Term Loan B, 4.50%, 7/19/18 | 605 | 609,190 |
| SS&C Technologies, Inc.: | | |
| Term Loan B1, 3.25%, 6/07/19 | 628 | 629,209 |
| Term Loan B2, 3.25%, 6/07/19 | 65 | 65,091 |
| | Par | |
| Floating Rate Loan Interests | | |
| Software (concluded) | | |
| StoneRiver Holdings, Inc., 1st Lien Term Loan, 4.50%, 11/29/19 | \$ 177 | \$ 176,298 |
| Websense, Inc., Term Loan B, 4.50%, 6/25/20 | 209 | 209,213 |
| | | 5,396,041 |
| Specialty Retail 4.1% | | |
| Academy Ltd., Term Loan, 4.50%, 8/03/18 | 1,082 | 1,086,529 |
| Atlantic Aviation FBO, Inc., Term Loan B, 3.25%, 6/01/20 | 254 | 254,123 |
| Bass Pro Group LLC, Term Loan, 4.00%, 11/20/19 | 690 | 692,744 |
| Burlington Coat Factory Warehouse Corp., Term Loan B2, 4.25%, 2/23/17 | 328 | 330,104 |
| David's Bridal, Inc., Term Loan B, 5.00%, 10/11/19 | 859 | 859,053 |
| Equinox Holdings, Inc., Repriced Term Loan B, 4.50%, 1/31/20 | 423 | 424,989 |
| Gymboree Corp., Initial Term Loan, 5.00%, 2/23/18 | 67 | 64,489 |
| Harbor Freight Tools USA, Inc., 1st Lien Term Loan, 4.75%, 7/26/19 | 665 | 671,997 |
| Jo-Ann Stores, Inc., Term Loan, 4.00%, 3/16/18 | 382 | 382,352 |
| Leslie's Poolmart, Inc., Term Loan B, 4.25%, 10/16/19 | 687 | 688,613 |
| Michaels Stores, Inc., Term Loan, 3.75%, 1/28/20 | 652 | 653,226 |
| Party City Holdings, Inc., Refinancing Term Loan B, 4.25%, 7/29/19 | 1,454 | 1,457,249 |
| Petco Animal Supplies, Inc., Term Loan, 4.00%, 11/24/17 | 1,060 | 1,064,157 |
| Sprouts Farmers Markets Holdings LLC, Term Loan, 4.00%, 4/23/20 | 192 | 192,879 |
| SRAM LLC, Term Loan B, 4.00%, 4/10/20 | 214 | 212,868 |
| Things Remembered, Inc., Term Loan B, 8.00%, 5/24/18 | 743 | 739,210 |
| Toys R Us-Delaware, Inc.: | | |

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| | | |
|--|-----|-----------|
| Incremental Term Loan B2, 5.25%, 5/25/18 | 153 | 135,799 |
| Term Loan B3, 5.25%, 5/25/18 | 47 | 41,549 |
| | | 9,951,930 |

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BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Par | |
|---|-------------------|--------------|
| | (000) | Value |
| Floating Rate Loan Interests | | |
| Textiles, Apparel & Luxury Goods 0.6% | | |
| Ascend Performance Materials LLC, Term Loan B, 6.75%, 4/10/18 | \$ 862 | \$ 819,606 |
| Phillips-Van Heusen Corp., Term Loan B, 3.25%, 2/13/20 | 470 | 470,763 |
| True Religion Apparel, Inc., 1st Lien Term Loan, 5.88%, 7/30/19 | 85 | 81,281 |
| | | 1,371,650 |
| Thrifts & Mortgage Finance 0.3% | | |
| IG Investments Holdings LLC, 1st Lien Term Loan, 5.50%, 10/31/19 | 422 | 423,525 |
| Ocwen Financial Corp., Term Loan, 5.00%, 2/15/18 | 353 | 357,273 |
| | | 780,798 |
| Trading Companies & Distributors 0.0% | | |
| WESCO Distribution, Inc., Term Loan B, 4.50%, 12/12/19 | 120 | 120,008 |
| Wireless Telecommunication Services 0.5% | | |
| Cricket Communications, Inc., Term Loan, 4.75%, 10/10/19 | 332 | 333,094 |
| Light Tower Fiber LLC, 1st Lien Term Loan, 4.50%, 4/13/20 | 579 | 578,793 |
| Time Warner Telecom Holdings Inc., Term Loan B, 2.67%, 4/17/20 | 319 | 319,998 |
| | | 1,231,885 |
| Total Floating Rate Loan Interests 81.3% | | 198,071,468 |
| Non-Agency Mortgage-Backed Securities 0.2% | | |
| Collateralized Mortgage Obligations 0.2% | | |
| Hilton USA Trust 2013-HLT, Series 2013-HLT, Class EFX, 5.22%, 11/05/30 (b)(g) | 565 | 567,825 |
| | Beneficial | |
| | Interest | |
| Other Interests (a)(i) | (000) | Value |
| Auto Components 0.0% | | |
| Internet Liquidating Trust, Class A | \$ 320 | \$ 3 |
| Diversified Financial Services 0.2% | | |
| J.G. Wentworth LLC Preferred Equity Interests (90-day lock), (Acquired 11/18/13, cost \$708,423) (j) | 10 | 158,683 |
| J.G. Wentworth LLC Preferred Equity Interests (135-day lock), (Acquired 11/18/13, cost \$708,423) (j) | 10 | 158,683 |
| J.G. Wentworth LLC Preferred Equity Interests (180-day lock), (Acquired 11/18/13, cost \$708,423) (j) | 10 | 158,683 |
| | | 476,049 |
| Media 0.0% | | |
| Adelphia Preferred Escrow | 3 | |
| Adelphia Recovery Trust, Series ACC-6B INT | 250 | 7,500 |
| | | 7,500 |
| Total Other Interests 0.2% | | 483,552 |
| Trust Preferreds 0.8% | | |
| Diversified Financial Services 0.8% | Shares | |
| GMAC Capital Trust I, Series 2, 8.13%, 2/15/40 (d) | 71,810 | 1,920,493 |
| Warrants (k) | | |
| Chemicals 0.1% | | |
| GEO Specialty Chemicals, Inc. (Expires 3/31/15) | 172,462 | 144,868 |
| Media 0.2% | | |

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| | | |
|---|-------|-------------|
| Charter Communications Inc, (Issued/exercisable 11/30/09, 1 Share for 1 Warrant, Expires 11/30/14, Strike Price \$51.28) | 6,862 | 583,407 |
| Software 0.0% | | |
| HMH Holdings/EduMedia, (Issued/Exercisable 3/09/10, 19 Shares for 1 Warrant, Expires 6/22/19, Strike Price \$42.27) | 982 | |
| Total Warrants 0.3% | | 728,275 |
| Total Long-Term Investments | | |
| (Cost \$345,552,078) 142.3% | | 346,670,232 |

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

(Percentages shown are based on Net Assets)

| | Shares | Value |
|--|--------|----------------|
| Short-Term Securities | | |
| BlackRock Liquidity Funds, TempFund, Institutional Class, 0.15% (l)(m) | 11,606 | \$ 11,606 |
| Total Short-Term Securities | | |
| (Cost \$11,606) 0.0% | | 11,606 |
| | | |
| | | Value |
| Total Investments (Cost \$345,563,684*) 142.3% | | \$ 346,681,838 |
| Liabilities in Excess of Other Assets (42.3)% | | (103,073,313) |
| | | |
| Net Assets 100.0% | | \$ 243,608,525 |

* As of November 30, 2013, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

| | |
|-------------------------------|----------------|
| Tax cost | \$ 343,804,636 |
| Gross unrealized appreciation | \$ 12,627,740 |
| Gross unrealized depreciation | (9,750,538) |
| Net unrealized appreciation | \$ 2,877,202 |

Notes to Schedule of Investments

- (a) Non-income producing security.
- (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) Represents a payment-in-kind security which may pay interest/dividends in additional par/shares and/or in cash. Rates shown are the current rate and possible payment rates.
- (d) Variable rate security. Rate shown is as of report date.
- (e) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.
- (f) Convertible security.

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

| Counterparty | Value | Unrealized Appreciation |
|----------------------------|------------|----------------------------|
| Barclays Bank PLC | \$ 87,435 | \$ 435 |
| Goldman Sachs & Co. | \$ 191,955 | \$ 955 |
| J.P. Morgan Securities LLC | \$ 567,825 | |

(h) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.

(i) Other interests represent beneficial interests in liquidation trusts and other reorganization or private entities.

(j) Restricted securities as to resale. As of report date the Fund held 0.2% of its net assets, with a current value of \$476,049 in these securities.

(k) Warrants entitle the Fund to purchase a predetermined number of shares of common stock and are non-income producing. The purchase price and number of shares are subject to adjustment under certain conditions until the expiration date, if any.

(l) Investments in issuers considered to be an affiliate of the Fund during the period ended November 30, 2013, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

| Affiliate | Shares Held | | Shares Held | |
|--|-------------------------|-----------------|-------------------------|--------|
| | at February 28, 2013 | Net Activity | at November 30, 2013 | Income |
| BlackRock Liquidity Funds, TempFund, Institutional Class | 2,447,698 | (2,436,092) | 11,606 | \$ 902 |

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

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

| | |
|---------------|--|
| ADS | American Depositary Shares |
| CLO | Collateralized Loan Obligation |
| DIP | Debtor-In-Possession |
| EBITDA | Earnings Before Interest, Taxes, Depreciation and Amortization |
| FKA | Formerly Known As |
| CAD | Canadian Dollar |
| USD | U.S. Dollar |

For Fund compliance purposes, the Fund's industry classifications refer to any one or more of the industry sub-classifications used by one or more widely recognized market indexes or ratings group indexes, and/or as defined by Fund management. These definitions may not apply for purposes of this report, which may combine such industry sub-classifications for reporting ease.

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

Level 1 unadjusted price quotations in active markets/exchanges for identical assets 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)

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.

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund's policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments is based on the pricing transparency of the investment 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, please refer to the Fund's most recent financial statements as contained in its semi-annual report.

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

The following table summarizes the Fund's investments categorized in the disclosure hierarchy as of November 30, 2013:

| | Level 1 | Level 2 | Level 3 | Total |
|---------------------------------------|------------|----------------|---------------|----------------|
| Assets: | | | | |
| Investments: | | | | |
| Long-Term Investments: | | | | |
| Asset-Backed Securities | | | \$ 6,454,159 | \$ 6,454,159 |
| Common Stocks | \$ 937,306 | \$ 1,120,281 | 1,184,688 | 3,242,275 |
| Corporate Bonds | | 130,622,528 | 4,579,657 | 135,202,185 |
| Floating Rate Loan Interests | | 183,019,647 | 15,051,821 | 198,071,468 |
| Non-Agency Mortgage-Backed Securities | | 567,825 | | 567,825 |
| Other Interests | | | 483,552 | 483,552 |
| Trusts Preferred | | 1,920,493 | | 1,920,493 |
| Warrants | | 583,407 | 144,868 | 728,275 |
| Short-Term Securities | 11,606 | | | 11,606 |
| Unfunded Loan Commitments | | 435 | | 435 |
| Liabilities: | | | | |
| Unfunded Loan Commitments | | (107) | | (107) |
| Total | \$ 948,912 | \$ 317,834,509 | \$ 27,898,745 | \$ 346,682,166 |

Certain of the Fund's assets and/or liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of November 30, 2013, such assets and liabilities are categorized within the disclosure hierarchy as follows:

| | Level 1 | Level 2 | Level 3 | Total |
|---------------------------|------------|-----------------|---------|-----------------|
| Assets: | | | | |
| Cash | \$ 132,015 | | | \$ 132,015 |
| Foreign currency at value | 3,068 | | | 3,068 |
| Liabilities: | | | | |
| Loans payable | | \$ (99,000,000) | | (99,000,000) |
| Total | \$ 135,083 | \$ (99,000,000) | | \$ (98,864,917) |

There were no transfers between Level 1 and Level 2 during the period ended November 30, 2013.

Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

A reconciliation of Level 3 investments is presented when the Fund had a significant amount of Level 3 investments at the beginning and/or end of the period in relation to net assets. The following table is a reconciliation of Level 3 investments for which significant unobservable inputs were used in determining fair value:

| | Common Stocks | Asset-Backed Securities | Corporate Bonds | Floating Rate Loan Interests | Other Interests | Warrants | Total |
|---|------------------|----------------------------|--------------------|------------------------------------|--------------------|------------|---------------|
| Assets: | | | | | | | |
| Opening balance, as of February 28, 2013 | \$ 93,315 | \$ 10,426,035 | \$ 3,916,065 | \$ 16,996,955 | \$ 645,641 | \$ 11,124 | \$ 32,089,135 |
| Transfers into Level 3 ¹ | 744,380 | 238,750 | | 1,719,095 | 7,500 | | 2,709,725 |
| Transfers out of Level 3 ² | | | (270,720) | (4,925,557) | | | (5,196,277) |
| Accrued discounts/premiums | | 30,398 | 63,234 | 17,963 | | | 111,595 |
| Net realized gain | 806 | 380,136 | | 109,815 | | | 490,757 |
| Net change in unrealized appreciation/depreciation ³ | 416,830 | (305,546) | 871,078 | (81,385) | 98,436 | 133,744 | 1,133,157 |
| Purchases | | 2,243,383 | | 11,151,899 | 2,125,269 | | 15,520,551 |
| Sales | (70,643) | (6,558,997) | | (9,936,964) | (2,393,294) | | (18,959,898) |
| Closing balance, as of November 30, 2013 | \$ 1,184,688 | \$ 6,454,159 | \$ 4,579,657 | \$ 15,051,821 | \$ 483,552 | \$ 144,868 | \$ 27,898,745 |

¹ As of February 28, 2013, the Fund used observable inputs in determining the value of certain investments. As of November 30, 2013, the Fund used significant unobservable inputs in determining the value of the same investments. As a result, investments with a beginning of period value of \$2,709,725 transferred from Level 2 to Level 3 in the disclosure hierarchy.

² As of February 28, 2013, the Fund used significant unobservable inputs in determining the value of certain investments. As of November 30, 2013, the Fund used observable inputs in determining the value of the same investments. As a result, investments with a beginning of period value of \$5,196,277 transferred from Level 3 to Level 2 in the disclosure hierarchy.

³ The change in unrealized appreciation/depreciation on investments still held as of November 30, 2013 was \$(140,380).

BLACKROCK SENIOR HIGH INCOME FUND, INC.

NOVEMBER 30, 2013

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Consolidated Schedule of Investments (concluded)

BlackRock Senior High Income Fund, Inc. (ARK)

The following table summarizes the valuation techniques used and unobservable inputs utilized by the Global Valuation Committee to determine the value of certain of the Funds Level 3 investments and derivative financial instruments as of November 30, 2013. The table does not include Level 3 investments and derivative financial instruments with values based upon unadjusted third party pricing information. Level 3 investments valued using third party pricing information was \$21,837,865. A significant change in such third party pricing information could result in a significantly lower or higher value of such Level 3 investments.

| | Value | Valuation Techniques | Unobservable Inputs ¹ | Range of Unobservable Inputs |
|------------------------------|---------------------|----------------------------------|----------------------------------|------------------------------|
| | | | | Utilized |
| Assets: | | | | |
| Common Stocks | \$ 121,096 | Market Comparable Companies | Last 12 months EBITDA Multiple | 6.50x |
| | | | Illiquidity Discount | 17.50% |
| Corporate Bonds ² | 4,579,657 | Market Comparable Companies | Last 12 months EBITDA Multiple | 6.50x 10x |
| | | | Illiquidity Discount | 17.50% |
| Floating Rate Loan Interests | 739,210 | Market Comparable Yield Analysis | Yield | 8.13% |
| Other Interests | 476,049 | Discounted Vendor Price | Illiquidity Discount | 5.00% |
| Warrants | 144,868 | Market Comparable Companies | Last 12 months EBITDA Multiple | 6.50x |
| | | | Illiquidity Discount | 17.50% |
| Total | \$ 6,060,880 | | | |

¹ A change to the unobservable input may result in a significant change to the value of the investment as follows:

| Unobservable Input | Impact to Value if Input Increases | Impact to Value if Input Decreases |
|--------------------------------|------------------------------------|------------------------------------|
| Last 12 months EBITDA Multiple | Increase | Decrease |
| Illiquidity Discount | Decrease | Increase |
| Yield | Decrease | Increase |

² For the period ended November 30, 2013, the valuation technique for certain investments classified as corporate bonds changed to a market approach. The investment was previously valued utilizing acquisition cost. Market information became available for this investment which is considered to be a more relevant measure of fair value for this investment.

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 Senior High Income Fund, Inc.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Senior High Income Fund, Inc.

Date: January 24, 2014

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 Senior High Income Fund, Inc.

Date: January 24, 2014

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Senior High Income Fund, Inc.

Date: January 24, 2014