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BLACKROCK SENIOR HIGH INCOME FUND, INC.

Form N-Q

July 26, 2007

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 811-7456

Name of Fund: BlackRock Senior High Income Fund, Inc.

Fund Address: P.O. Box 9011
Princeton, NJ 08543-9011

Name and address of agent for service: Robert C. Doll, Jr., Chief Executive
Officer, BlackRock Senior High Income Fund, Inc., 800 Scudders Mill
Road, Plainsboro, NJ, 08536. Mailing address: P.O. Box 9011,
Princeton, NJ, 08543-9011

Registrant's telephone number, including area code: (609) 282-2800

Date of fiscal year end: 02/28/2008

Date of reporting period: 03/01/07 - 05/31/07

Item 1 - Schedule of Investments

BlackRock Senior High Income Fund, Inc.

Schedule of Investments as of May 31, 2007 (unaudited)

| Industry | Face Amount | Corporate Bonds |
|----------------------------|----------------|---|
| Aerospace & Defense - 1.6% | \$ 5,510,000 | Vought Aircraft Industries, Inc., 8% due 7/15/2011 |
| Automotive - 4.1% | 680,000 | Ford Motor Credit Co., 5.80% due 1/12/2009 |
| | 2,240,000 | Ford Motor Credit Co., 8.11% due 1/13/2012 (c) |
| | 250,000 | Ford Motor Credit Co., 9.81% due 4/15/2012 (c) |
| | 5,070,000 | The Goodyear Tire & Rubber Co., 9.14% due 12/01/2009 (c) (k) |
| | 910,000 | The Goodyear Tire & Rubber Co., 8.625% due 12/01/2011 (k) |
| | 2,220,000 | Lear Corp., 8.75% due 12/01/2016 |
| | 1,075,000 | Metaldyne Corp., 11% due 6/15/2012 |
| | 770,000 | Titan International, Inc., 8% due 1/15/2012 |
| | 915,000 | United Auto Group, Inc., 7.75% due 12/15/2016 (k) |
| | 700,000 | Venture Holdings Co. LLC, 12% due 6/01/2009 (f) |
| | 3,325,000 | Venture Holdings Co. LLC Series B, 9.50% due 7/01/2005 (m) |

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| Broadcasting - 0.5% | 500,000 | LIN Television Corp. Series B, 6.50% due 5/15/2012 |
| | 1,325,000 | Paxson Communications Corp., 8.606% due 1/15/2012 (c) (k) |
| Cable - International - 0.1% | 350,000 | NTL Cable Plc, 8.75% due 4/15/2014 |
| Cable - U.S. - 7.0% | 3,175,000 | Cablevision Systems Corp. Series B, 9.82% due 4/01/2009 (c) |
| | 1,750,000 | Charter Communications Holdings LLC, 10% due 4/01/2009 |
| | 1,319,000 | Charter Communications Holdings LLC, 11.125% due 1/15/2011 |
| | 660,000 | Charter Communications Holdings LLC, 10% due 5/15/2011 |
| | 275,000 | Intelsat Bermuda Ltd., 11.409% due 6/15/2013 (c) |
| | 1,280,000 | Intelsat Bermuda Ltd., 8.872% due 1/15/2015 (c) |
| | 3,410,000 | Intelsat Corp., 9% due 6/15/2016 |
| | 1,675,000 | Intelsat Subsidiary Holding Co. Ltd., 8.25% due 1/15/2015 |
| | 2,400,000 | Intelsat Subsidiary Holding Co. Ltd., 8.625% due 1/15/2015 |
| | 1,875,000 | Mediacom LLC, 9.50% due 1/15/2013 |
| | 5,250,000 | Rainbow National Services LLC, 8.75% due 9/01/2015 |
| Chemicals - 4.8% | 610,000 | American Pacific Corp., 9% due 2/01/2015 (k) |
| | 1,350,000 | ArCo Chemical Co., 9.80% due 2/01/2020 |
| | 2,250,000 | Compass Minerals International, Inc. Series B, 12.5% due 6/01/2013 (i) |
| | 4,382,000 | GEO Specialty Chemicals, Inc., 13.85% due 12/31/2015 |
| | 1,500,000 | Hexion U.S. Finance Corp., 9.86% due 11/15/2014 (k) |
| | 1,170,000 | Ineos Group Holdings Plc, 8.50% due 2/15/2016 (k) |
| | 430,000 | Momentive Performance Materials, Inc., 10.125% due 12/01/2014 (h) (k) |
| | 4,690,000 | NOVA Chemicals Corp., 8.484% due 11/15/2013 (c) |
| | 1,000,000 | PolyOne Corp., 6.89% due 9/22/2008 |
| Consumer - Durables - 0.1% | 250,000 | Simmons Bedding Co., 7.875% due 1/15/2014 |
| Consumer - Non-Durables - 2.6% | 4,725,000 | Hines Nurseries, Inc., 10.25% due 10/01/2011 |
| | 2,125,000 | North Atlantic Trading Co., 9.25% due 3/01/2012 |
| | 3,525,000 | Quiksilver, Inc., 6.875% due 4/15/2015 |
| Diversified Media - 2.0% | 120,000 | Affinion Group, Inc., 10.125% due 10/15/2015 |
| | 395,000 | Affinion Group, Inc., 11.50% due 10/15/2015 |
| | 1,960,000 | Idearc, Inc., 8% due 11/15/2016 |
| | 245,000 | Network Communications, Inc., 10.75% due 12/01/2015 |
| | 1,350,000 | Nielsen Finance LLC, 10% due 8/01/2014 (k) |
| | 2,450,000 | Universal City Florida Holding Co. I, 10.106% due 5/01/2010 (c) |
| Energy - Exploration & Production - 2.0% | 200,000 | Berry Petroleum Co., 8.25% due 11/01/2016 |
| | 1,500,000 | Chaparral Energy, Inc., 8.50% due 12/01/2015 |

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| | 1,580,000 | Compton Petroleum Finance Corp., 7.625% due 12/01 |
| | 2,985,000 | Sabine Pass LNG LP, 7.50% due 11/30/2016 (k) |
| | 540,000 | Stone Energy Corp., 8.106% due 7/15/2010 (c) (k) |
| Energy - Other - 2.7% | 1,295,000 | Aleris International, Inc., 9% due 12/15/2014 (h) |
| | 5,000,000 | Ocean RIG ASA, 9.35% due 4/04/2011 (c) |
| | 3,025,000 | SemGroup LP, 8.75% due 11/15/2015 (k) |
| Financial - 2.4% | 3,000,000 | American Real Estate Partners LP, 7.125% due 2/15/2013 (k) |
| | 4,000,000 | Highland Legacy Ltd., 11.621% due 6/01/2011 (c) (k) |
| | 500,000 | Investcorp SA, 7.54% due 10/21/2008 |
| | 1,000,000 | Pennant CBO Ltd., 13.43% due 3/14/2011 (k) |
| Gaming - 3.3% | 4,475,000 | CCM Merger, Inc., 8% due 8/01/2013 (k) |
| | 550,000 | Galaxy Entertainment Finance Co. Ltd., 9.875% due 12/15/2012 (k) |
| | 1,210,000 | Little Traverse Bay Bands of Odawa Indians, 10.25% due 2/15/2014 (k) |
| | 300,000 | Penn National Gaming, Inc., 6.75% due 3/01/2015 |
| | 500,000 | Snoqualmie Entertainment Authority, 9.15% due 2/01/2014 (c) (k) |
| | 1,000,000 | Station Casinos, Inc., 7.75% due 8/15/2016 |
| | 1,650,000 | Tropicana Entertainment, LLC, 9.625% due 12/15/20 |
| | 1,500,000 | Tunica-Biloxi Gaming Authority, 9% due 11/15/2015 |
| Health Care - 4.0% | 2,690,000 | Angiotech Pharmaceuticals, Inc., 9.11% due 12/01/ |
| | 1,875,000 | CDRV Investors, Inc., 9.75% due 1/01/2015 (i) |
| | 1,000,000 | The Cooper Cos., Inc., 7.125% due 2/15/2015 (k) |
| | 1,650,000 | Elan Finance Plc, 7.75% due 11/15/2011 |
| | 2,325,000 | Elan Finance Plc, 9.36% due 11/15/2011 (c) |
| | 3,000,000 | Tenet Healthcare Corp., 7.375% due 2/01/2013 |
| | 500,000 | Universal Hospital Services, Inc., 8.50% due 6/01/2015 (h) (k) |
| | 460,000 | Universal Hospital Services, Inc., 8.759% due 6/01/2015 (c) (k) |
| | 700,000 | VWR International, Inc., 8% due 4/15/2014 |
| Housing - 5.1% | 1,500,000 | CPG International I, Inc., 10.50% due 7/01/2013 |
| | 1,540,000 | Esco Corp., 9.235% due 12/15/2013 (c) (k) |
| | 1,831,000 | Goodman Global Holding Co., Inc., 8.36% due 6/15/2012 (c) |
| | 4,750,000 | Goodman Global Holding Co., Inc., 7.875% due 12/1 |
| | 2,050,000 | Masonite Corp., 11% due 4/06/2015 (k) |
| | 6,000,000 | Realogy Corp., 11% due 4/15/2014 (h) (k) |
| Information Technology - 2.0% | 280,000 | Compagnie Generale de Geophysique-Veritas, 7.75% due 5/15/2017 |
| | 3,710,000 | Freescale Semiconductor, Inc., 9.125% due 12/15/2014 (h) (k) |

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|----------------------|-----------|---|
| | 430,000 | Freescale Semiconductor, Inc., 9.23% due 12/15/2014 (c) (k) |
| | 240,000 | Nortel Networks Ltd., 9.606% due 7/15/2011 (c) (k) |
| | 175,000 | Sanmina-SCI Corp., 8.125% due 3/01/2016 |
| | 2,180,000 | Spansion, Inc., 8.485% due 6/01/2013 (c) (k) |
| Leisure - 0.4% | 1,750,000 | True Temper Sports, Inc., 8.375% due 9/15/2011 |
| Manufacturing - 3.3% | 3,000,000 | Communications & Power Industries, Inc., 8% due 2/01/2012 |
| | 1,838,000 | Invensys Plc, 9.875% due 3/15/2011 (k) |
| | 1,320,000 | Jarden Corp., 7.50% due 5/01/2017 |
| | 2,490,000 | NXP BV, 8.106% due 10/15/2013 |
| | 950,000 | NXP BV, 9.50% due 10/15/2015 |
| | 740,000 | RBS Global, Inc., 9.50% due 8/01/2014 |
| | 835,000 | RBS Global, Inc., 8.875% due 9/01/2016 |
| Metal - Other - 4.8% | 5,430,000 | Freeport-McMoRan Copper & Gold, Inc., 8.564% due 4/01/2015 (c) |
| | 3,700,000 | Indalex Holding Corp. Series B, 11.50% due 2/01/2012 |
| | 4,530,000 | Peabody Energy Corp., 7.375% due 11/01/2016 |
| | 2,225,000 | RathGibson, Inc., 11.25% due 2/15/2014 |
| Packaging - 1.8% | 100,000 | Berry Plastics Holding Corp., 9.235% due 9/15/2011 |
| | 4,285,000 | Packaging Dynamics Finance Corp., 10% due 5/01/2012 |
| | 2,000,000 | Wise Metals Group LLC, 10.25% due 5/15/2012 |
| Paper - 10.2% | 3,275,000 | Abitibi-Consolidated, Inc., 8.86% due 6/15/2011 (c) |
| | 4,975,000 | Ainsworth Lumber Co. Ltd., 9.11% due 10/01/2010 (c) |
| | 2,500,000 | Ainsworth Lumber Co. Ltd., 9.364% due 4/01/2013 (c) |
| | 1,100,000 | Boise Cascade LLC, 8.235% due 10/15/2012 (c) |
| | 350,000 | Boise Cascade LLC, 7.125% due 10/15/2014 |
| | 7,475,000 | Bowater, Inc., 8.36% due 3/15/2010 (c) |
| | 1,775,000 | Domtar, Inc., 7.125% due 8/15/2015 |
| | 215,000 | Graphic Packaging International Corp., 9.50% due 8/15/2013 |
| | 5,175,000 | NewPage Corp., 11.606% due 5/01/2012 (c) |
| | 5,150,000 | Smurfit Kappa Funding Plc, 7.75% due 4/01/2015 |
| | 800,000 | Smurfit-Stone Container Enterprises, Inc., 8.375% due 7/01/2012 |
| | 1,300,000 | Smurfit-Stone Container Enterprises, Inc., 8% due 3/15/2017 (k) |
| | 2,300,000 | Verso Paper Holdings LLC, 9.11% due 8/01/2014 (c) |
| | 250,000 | Verso Paper Holdings LLC, 11.375% due 8/01/2016 (c) |
| Retail - 0.6% | 1,780,000 | Michaels Stores, Inc., 10% due 11/01/2014 (k) |
| Service - 1.6% | 2,700,000 | Ahern Rentals, Inc., 9.25% due 8/15/2013 |
| | 2,000,000 | Neff Rental LLC, 11.25% due 6/15/2012 |
| | 550,000 | PNA Intermediate Holding Corp., 12.36% due 2/15/2013 (c) (k) |

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| Telecommunications - 2.5% | 1,200,000 | Nordic Telephone Co. Holdings ApS, 8.875% due 5/01/2016 (k) |
| | 4,000,000 | Qwest Communications International, Inc., 8.86% due 2/15/2009 (c) |
| | 1,025,000 | Qwest Corp., 8.61% due 6/15/2013 (c) |
| | 2,000,000 | Time Warner Telecom Holdings, Inc., 9.25% due 2/1 |
| Transportation - 1.4% | 1,000,000 | Atlantic Express Transportation Corp., 12.609% due 4/15/2012 (c) (k) |
| | 1,000,000 | Navios Maritime Holdings, Inc., 9.50% due 12/15/2 |
| | 3,030,000 | St. Acquisition Corp., 13.107% due 5/15/2015 (c) (|
| Utility - 1.5% | 1,525,000 | El Paso Performance-Linked Trust, 7.75% due 7/15/2011 (k) |
| | 2,620,000 | NSG Holdings LLC, 7.75% due 12/15/2025 (k) |
| | 725,000 | Williams Cos., Inc., 8.625% due 6/01/2010 |
| Wireless Communications - 0.8% | 630,000 | iPCS, Inc., 7.48% due 5/01/2013 (c) (k) |
| | 310,000 | Orascom Telecom Finance SCA, 7.875% due 2/08/2014 |
| | 395,000 | Orascom Telecom Finance SCA, 7.875% due 2/08/2014 |
| | 1,500,000 | Rural Cellular Corp., 8.25% due 3/15/2012 |
| | | Total Corporate Bonds (Cost - \$256,679,270) - 73. |
| | | Floating Rate Loan Interests (b) |
| Aerospace & Defense - 1.9% | 78,014 | Hawker Beechcraft Letter of Credit, 5.25% due 3/3 |
| | 921,986 | Hawker Beechcraft Term Loan B, 7.32% due 3/31/201 |
| | 999,369 | IAP Worldwide Services, Inc. Term Loan, 9.688% due 12/31/2012 |
| | 498,750 | MRO Acquisitions Corp. First Lien Term Loan, 7.82% due 9/15/2010 |
| | 4,328,704 | Standard Aero Holdings Term Loan, 7.59% due 8/24/2012 |
| Airlines - 0.4% | 1,250,000 | Delta Airlines First Lien Term Loan, 7.355% due 5 |
| Automotive - 5.1% | 2,000,000 | ADESA, Inc. Term Loan B, 7.57% due 10/30/2013 |
| | 1,000,000 | Goodyear Tire & Rubber Co., First Lien Term Loan, due 4/30/2014 |
| | 447,127 | Intermet Corp. First Lien Term Loan, 10.353% due 11/08/2010 |
| | 648,148 | Intermet Corp., Letter of Credit, 10.20% due 11/0 |
| | 1,496,250 | Keystone Automotive Operations, Inc. Term Loan B, 8.75% due 1/15/2012 |
| | 57,692 | Metaldyne Corp., Letter of Credit, 8.92% - 9.10% |

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| | | due 1/15/2012 |
| | 392,308 | Metaldyne Corp., Term Loan B, 9.10% due 1/15/2014 |
| | 1,066,667 | Navistar International Transportation Corp., Revolving Loan, 5.22% - 8.61% due 6/30/2012 |
| | 2,933,333 | Navistar International Transportation Corp. Term Loan B, 8.61% due 6/30/2012 |
| | 1,995,000 | Oshkosh Truck Corp. Term Loan B, 7.35% due 11/30/2012 |
| | 987,453 | United Components, Inc. Term Loan D, 7.61% due 6/30/2012 |
| | 4,750,000 | Visteon Corp. Term Loan B, 8.35% - 8.38% due 6/30/2012 |
| | | |
| Beverages - 0.9% | 1,500,000 | Culligan International Dollar Loan, 7.57% due 11/30/2012 |
| | 1,500,000 | Culligan International Term Loan B, 9.50% due 4/2/2012 |
| | | |
| Broadcasting - 3.1% | 3,000,000 | Bresnan Telecommunications Term Loan B, 7.38% due 9/29/2013 |
| | 4,000,000 | Ellis Communications Term Loan, 10% due 12/30/2013 |
| | 3,758,389 | Univision Communications, Inc. Delay Draw Term Loan, 7.605% due 9/30/2014 |
| | | |
| Cable - U.S. - 7.2% | 4,400,037 | Cebridge Connections Second Lien Term Loan, 11.356% - 11.36% due 5/04/2014 |
| | 3,155,173 | Cebridge Connections Term Loan B, 7.34% - 7.35% due 11/05/2013 |
| | 8,000,000 | Charter Communications, Inc. Term Loan B, 7.32% due 4/30/2014 |
| | 5,000,000 | Insight Midwest Holdings LLC Delay Draw Term Loan, 7.35% due 4/03/2014 |
| | 1,992,653 | Mediacom Communications Term Loan D, 7.10% - 7.11% due 1/31/2015 |
| | 2,561,081 | Mediacom LLC Term Loan C, 7.09% - 7.11% due 1/31/2015 |
| | | |
| Chemicals - 3.9% | 2,652,750 | CII Carbon Term Loan B, 7.375% due 8/23/2012 |
| | 1,194,012 | Huntsman ICI Holdings Term Loan B, 7.07% due 8/16/2012 |
| | 1,568,000 | Rockwood Specialties Group, Inc. Tranche D Term Loan, 7.355% due 12/10/2012 |
| | 8,000,000 | Wellman, Inc. First Lien Term Loan, 9.356% due 2/28/2012 |
| | | |
| Consumer - Non-Durables - 0.4% | 1,451,250 | Solo Cup Co. Term Loan, 8.84% - 8.85% due 2/27/2012 |
| | | |
| Diversified Media - 3.9% | 2,000,000 | Affinion Group Term Loan, 11.66% due 3/01/2012 |
| | 605,797 | GateHouse Media, Inc. Delay Draw Term Loan, 7.35% - 7.36% due 9/15/2014 |
| | 1,500,000 | GateHouse Media, Inc. Term Loan B, 7.36% due 9/15/2014 |
| | 1,000,000 | Hanley-Wood LLC Term Loan B, 7.59% - 7.61% due 3/07/2014 |
| | 2,992,500 | Idearc, Inc. Term Loan B, 7.35% due 11/15/2014 |
| | 3,482,500 | Nielsen Finance LLC Term Loan B, 7.607% due 8/15/2014 |
| | 750,000 | Penton Media Term Loan, 7.60% - 7.605% due 2/15/2014 |
| | 479,022 | Riverdeep Group Ltd. Bridge Loan, 11.55% due 12/2/2013 |

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| | 750,000 | Riverdeep Group Ltd. Term Loan B, 8.10% due 12/21 |
| Energy - Exploration & Production - 2.5% | 450,000 | Big West Oil & Gas Term Loan B, 9.50% due 5/15/20 |
| | 6,000,000 | Frontier Drilling Term Loan B, 8.60% due 6/21/201 |
| | 495,000 | MEG Energy Corp. Term Loan B, 7.35% due 4/03/2013 |
| | 1,000,000 | Sandridge Energy Term Loan, 8.975% due 3/01/2014 |
| | 803,571 | Western Refining Co. LP Term Loan B, 7.07% due 3/15/2014 |
| Energy - Other - 2.9% | 330,833 | Alon USA, Inc., Delay Draw Term Loan, 7.57% due 6/22/2013 |
| | 2,646,667 | Alon USA, Inc., Term Loan B, 7.57% - 7.62% due 6/ |
| | 1,500,000 | Dresser, Inc. First Lien Term Loan, 7.82% due 5/1 |
| | 1,000,000 | Dresser, Inc. Second Lien Term Loan, 11.07% due 5/15/2015 |
| | 2,468,750 | Key Energy Services, Inc. Term Loan B, 7.85% - 7. due 6/30/2012 |
| | 2,000,000 | Scorpion Drilling Ltd. Second Lien Term Loan, 13. due 5/05/2015 |
| Financial - 1.2% | 1,000,000 | J.G. Wentworth Manufacturing Second Lien Term Loa 10.35% due 10/15/2014 |
| | 3,000,000 | J.G. Wentworth Manufacturing Term Loan B, 7.60% due 4/15/2014 |
| Food & Tobacco - 4.4% | 329,207 | Aramark Corp., Letter of Credit, 5.20% due 1/30/2 |
| | 4,606,443 | Aramark Corp., Term Loan B, 7.35% due 1/30/2014 |
| | 750,000 | Bolthouse Farms, Inc. Second Lien Term Loan, 10.8 due 12/01/2013 |
| | 558,777 | Dole Food Co., Inc., Letter of Credit, 5.226% due |
| | 1,244,675 | Dole Food Co., Inc., Term Loan B, 7.438% - 9.25% due 4/12/2013 |
| | 4,148,917 | Dole Food Co., Inc., Term Loan C, 7.438% - 9.25% due 4/04/2013 |
| | 970,560 | Eight O'Clock Coffee Second Lien Term Loan, 8.125 due 7/21/2012 |
| | 1,401,962 | Pierre Foods, Inc. Term Loan B, 7.61% due 6/30/20 |
| | 992,500 | QCE LLC First Lien Term Loan, 7.598% due 5/05/201 |
| | 250,000 | Sturm Foods, Inc. First Lien Term Loan, 7.938% due 1/30/2014 |
| Gaming - 2.6% | 1,300,000 | Edge-Star Partners LLC First Lien Term Loan, 9.36 due 11/18/2007 |
| | 200,000 | Edge-Star Partners LLC First Lien Term Loan, 9.36 due 11/18/2007 |
| | 748,125 | Greenwood Racing, Inc. Term Loan, 7.57% due 11/15 |
| | 1,200,000 | Las Vegas Sands Term Loan B, 7.07% due 5/04/2014 |
| | 1,500,000 | Venetian Macau US Finance Co. LLC Delay Draw Term 7.60% due 5/25/2012 |
| | 4,000,000 | Venetian Macau US Finance Co. LLC Term Loan B, 7.60% due 5/25/2013 |

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| Health Care - 2.7% | 497,500 | Community Health Systems, Inc. Term Loan B, 7.10% due 12/15/2013 |
| | 1,107,600 | DaVita, Inc. Term Loan B, 6.82% - 6.86% due 7/30/2013 |
| | 2,000,000 | Health Management Associates, Inc. Term Loan B, 7.10% due 1/15/2014 |
| | 3,000,000 | Pharmaceutical Technologies & Services (PTS) Term Loan B, 7.60% due 4/15/2014 |
| | 497,500 | Sterigenics International, Inc. Term Loan B, 7.86% due 11/30/2013 |
| | 2,347,414 | VWR International, Inc. Tranche B Term Loan, 7.61% due 4/07/2011 |
| Housing - 2.7% | 1,476,563 | Headwaters, Inc. Term Loan B-1, 7.36% due 4/30/2013 |
| | 5,000,000 | LNR Property Corp. Term Loan B, 8.11% due 7/12/2013 |
| | 3,000,000 | Realogy Corp. Letter of Credit, 8.35% due 9/22/2013 |
| Information Technology - 3.9% | 1,638,380 | Activant Solutions Term Loan B, 7.375% due 5/02/2013 |
| | 500,000 | Audio Visual Services Corp. Second Lien Term Loan B, 7.60% due 9/15/2014 |
| | 2,000,000 | Audio Visual Services Corp. Term Loan B, 7.60% due 3/15/2014 |
| | 973,460 | ClientLogic Holding Corp. Term Loan B, 7.82% due 1/30/2014 |
| | 464,286 | Intergraph Corp. Term Loan, 7.61% due 5/15/2014 |
| | 697,491 | RedPrairie Corp. Term Loan, 8.375% - 10.25% due 7/31/2013 |
| | 299,250 | RedPrairie Corp. Term Loan, 8.375% due 1/31/2013 |
| | 1,990,000 | Reynolds and Reynolds Company First Lien Term Loan B, 7.35% due 10/31/2012 |
| | 3,000,000 | Sanmina-SCI Corp. Term Loan, 8.375% due 1/30/2008 |
| | 498,750 | SunGard Data Systems, Inc. Term Loan B, 7.356% due 2/28/2014 |
| 1,653,750 | Telcordia Technologies, Inc. Term Loan, 8.11% due 9/15/2012 | |
| Leisure - 1.3% | 2,977,500 | Cedar Fair LP Term Loan B, 7.32% due 8/30/2012 |
| | 1,500,000 | National Cinemedia LLC Term Loan B, 7.09% due 2/28/2015 |
| Manufacturing - 3.2% | 500,000 | Brand Energy Letter of Credit, 7.625% due 2/15/2013 |
| | 1,000,000 | Harrington Holdings, Inc. Term Loan, 7.84% due 1/15/2014 |
| | 1,000,000 | Huish Detergents, Inc. First Lien Term Loan, 7.32% due 4/15/2014 |
| | 1,529,412 | Invensys PLC Bonding Tranche, 7.356% due 12/15/2013 |
| | 1,720,588 | Invensys PLC Term Loan, 7.347% due 1/15/2011 |
| | 1,207,964 | John Maneely Co. Term Loan B, 8.571% - 8.622% due 12/15/2013 |
| | 3,348,427 | Metokote Corp. Second Lien Term Loan, 8.32% - 8.36% due 11/27/2011 |
| | 1,000,000 | Mueller Water Products Term Loan B, 7.07% due 5/16/2014 |

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| Metal - Other - 1.3% | 3,000,000 | Euramax International Plc Second Lien Term Loan, due 6/29/2013 |
| | 1,696,527 | Euramax International Plc Tranche 3 Term Loan B, 8.375% due 6/29/2012 |
| Packaging - 1.3% | 1,567,095 | Anchor Glass Container Corp. Term Loan B, 7.60% - due 5/03/2013 |
| | 2,000,000 | Graham Packaging Term Loan B, 7.625% due 4/15/2013 |
| | 1,000,000 | Graphic Packaging International Term Loan B, 8.75% due 8/08/2010 |
| Paper - 0.2% | 27,586 | Cenveo, Inc. Delay Draw Term Loan, 7.10% due 9/07/2013 |
| | 827,586 | Cenveo, Inc. Term Loan C, 7.10% due 9/07/2013 |
| Personal Products - 0.3% | 1,000,000 | KIK Corp First Lien Term Loan, 7.61% due 5/30/2013 |
| Retail - 0.7% | 500,000 | Burlington Coat Factory Warehouse Corp. Term Loan B, 7.61% due 4/15/2013 |
| | 1,500,000 | Claire's Stores Term Loan B, 8.07% due 5/24/2014 |
| | 498,750 | PETCO Animal Supplies, Inc. Term Loan, 8.10% due 10/31/2012 |
| Service - 4.0% | 807,272 | Allied Waste North America, Inc., Term Loan, 7.06% due 1/15/2012 |
| | 382,057 | Allied Waste North America, Inc., Tranche A Credit Linked Deposit, 5.32% due 1/15/2012 |
| | 800,000 | Brickman Group, Inc. Term Loan, 7.34% - 7.399% due 1/30/2014 |
| | 1,000,000 | Brock Holdings Term Loan, 7.32% due 2/28/2014 |
| | 750,000 | Inmar, Inc. Term Loan B, 7.82% due 5/15/2013 |
| | 1,725,712 | NES Rentals Holdings, Inc. Term Loan C, 12.125% due 7/12/2013 |
| | 732,336 | United Rentals, Inc. Term Loan, 7.32% due 2/14/2012 |
| | 333,333 | United Rentals, Inc. Tranche B Credit Linked Deposit, 5.32% due 2/14/2011 |
| | 7,530,327 | Waste Services, Inc. Term Loan D, 7.82% due 3/31/2014 |
| Steel - 0.1% | 498,750 | McJunkin Corp. Term Loan B, 7.60% due 1/30/2014 |
| Telecommunications - 1.0% | 750,000 | Knology, Inc. Term Loan B, 7.59% due 3/15/2012 |
| | 1,702,542 | Winstar Communications Debtor in Possession, 6.36% due 12/31/2006 (m) |
| Transportation - 0.9% | 3,000,000 | Swift Transportation Co., Inc. Term Loan B, 8.375% due 5/15/2014 |
| Utility - 0.2% | 742,500 | Generac Portable Products, Inc. First Lien Term Loan B, 7.85% due 11/15/2013 |

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| | | |
|--------------------------------|-----------|--|
| Wireless Communications - 2.2% | 1,000,000 | American Cellular Network Term Loan B, 7.32% due 3/15/2014 |
| | 2,750,000 | Centennial Cellular Operating Co. Term Loan, 7.35% due 2/09/2011 |
| | 2,000,000 | Crown Castle Operating Co. Term Loan, 6.899% due 3/15/2014 |
| | 1,995,000 | West Corp. Term Loan, 7.763% - 8.11% due 10/31/2010 |

Total Floating Rate Loan Interests
(Cost - \$228,826,298) - 66.4%

| | Shares Held | Common Stocks |
|------------------|----------------|---|
| Chemicals - 0.0% | 142,466 | GEO Specialty Chemicals, Inc. (e) |
| Leisure - 0.2% | 41,866 | Lodgian, Inc. (e) |
| Paper - 0.1% | 18,171 | Smurfit Kappa Plc (e) |
| | | Total Common Stocks (Cost - \$2,818,960) - 0.3% |

| | | Warrants (l) |
|--------------------------------|-----|--|
| Wireless Communications - 0.1% | 600 | American Tower Corp. (expires 8/01/2008) |
| | | Total Warrants (Cost - \$39,036) - 0.1% |

| | Beneficial Interest | Other Interests (g) |
|---------------------|------------------------|--|
| Automotive - 0.0% | \$ 4,130,972 | Cambridge Industries, Inc. (Litigation Trust Certificates) |
| Cable - U.S. - 0.0% | 2,500 250,000 | Adelphia Preferred Escrow Adelphia Recovery Trust Series ACC-6B INT |
| Health Care - 0.0% | 10,284 | MEDIQ, Inc. (Preferred Stock Escrow due 2/01/2006) |
| | | Total Other Interests (Cost - \$25) - 0.0% |

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Short-Term Securities

\$ 3,114,350 BlackRock Liquidity Series,
LLC Cash Sweep Series, 5.26% (d) (j)

Total Short-Term Securities (Cost - \$3,114,350) -

Total Investments (Cost - \$491,477,939*) - 140.9%

Liabilities in Excess of Other Assets - (40.9%)

Net Assets - 100.0%

* The cost and unrealized appreciation (depreciation) of investments as of May 31, 2007, as computed for federal income tax purposes, were as follows:

| | | |
|-------------------------------|----|--------------|
| Aggregate cost | \$ | 491,204,049 |
| | | ===== |
| Gross unrealized appreciation | \$ | 12,870,641 |
| Gross unrealized depreciation | | (10,891,506) |
| | | ----- |
| Net unrealized appreciation | \$ | 1,979,135 |
| | | ===== |

(a) Convertible security.

(b) Floating rate loan interests in which the Fund invests generally pays interest at rates that are periodically redetermined by reference to a base lending rate plus a premium. The base lending rates are generally (i) the lending rate offered by one or more major European banks, such as London InterBank Rate ("LIBOR"), (ii) the prime rate offered by one or more U.S. banks, or (iii) the certificate of deposit rate.

(c) Floating rate security.

(d) Investments in companies considered to be an affiliate of the Fund, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

| Affiliate | Net Activity | Interest Income |
|--|-----------------|--------------------|
| BlackRock Liquidity Series, LLC Cash Sweep Series | \$ (1,736,275) | \$ 92,858 |

(e) Non-income producing security.

(f) Non-income producing security; issuer filed for bankruptcy or is in default of interest payments.

(g) Other interests represent beneficial interest in liquidation trusts and other reorganization entities and are non-income producing.

(h) Represents a pay-in-kind security which may pay interest/dividends in additional face/shares.

(i) Represents a step bond; the interest rate shown reflects the effective yield at the time of purchase.

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- (j) Represents the current yield as of May 31, 2007.
- (k) The security may be offered and sold to "qualified institutional buyers" under Rule 144A of the Securities Act of 1933.
- (l) 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.
- (m) As a result of bankruptcy proceedings, the company did not repay the principal amount of the security upon maturity and is non-income producing.
 - o 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. This definition may not apply for purposes of this report, which may combine industry sub-classifications for reporting ease. Industries are shown as a percent of net assets.
 - o Swaps outstanding as of May 31, 2007 were as follows:

| | Notional Amount | Unrealized Appreciation |
|---|--------------------|----------------------------|
| Sold credit default protection on Ford Motor Credit Co. and receive 2.05% | | |
| Broker, Deustche Bank AG London Expires March 2010 | \$ 5,000,000 | \$ 4,090 |

Item 2 - Controls and Procedures

- 2(a) - The registrant's certifying officers have reasonably designed such disclosure controls and procedures to ensure material information relating to the registrant is made known to us by others particularly during the period in which this report is being prepared. The registrant's certifying officers have determined that the registrant's disclosure controls and procedures are effective based on our evaluation of these controls and procedures as of a date within 90 days prior to the filing date of this report.
- 2(b) - There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Act (17 CFR 270.30a-3(d)) that occurred during the last fiscal quarter of the period covered by this report that has materially affected, or is 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.

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BlackRock Senior High Income Fund, Inc.

By: /s/ Robert C. Doll, Jr.

Robert C. Doll, Jr.
Chief Executive Officer
BlackRock Senior High Income Fund, Inc.

Date: July 24, 2007

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/ Robert C. Doll, Jr.

Robert C. Doll, Jr.
Chief Executive Officer
BlackRock Senior High Income Fund, Inc.

Date: July 24, 2007

By: /s/ Donald C. Burke

Donald C. Burke
Chief Financial Officer
BlackRock Senior High Income Fund, Inc.

Date: July 24, 2007