

BLACKROCK SENIOR HIGH INCOME FUND, INC.

Form N-CSRS

November 05, 2012

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-CSR

**CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT INVESTMENT
COMPANIES**

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
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Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 02/28/2013

Date of reporting period: 08/31/2012

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Item 1 Report to Stockholders

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August 31, 2012

Semi-Annual Report (Unaudited)

BlackRock Corporate High Yield Fund, Inc. (COY)

BlackRock Corporate High Yield Fund III, Inc. (CYE)

BlackRock Debt Strategies Fund, Inc. (DSU)

BlackRock Floating Rate Income Strategies Fund II, Inc. (FRB)

BlackRock Senior High Income Fund, Inc. (ARK)

Not FDIC Insured No Bank Guarantee May Lose Value

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Dear Shareholder

About this time one year ago, financial markets had been upended by sovereign debt turmoil in the United States and Europe as well as growing concerns about the future of the global economy. Since then, asset prices have waxed and waned in broad strokes as investors reacted to developments in Europe's financial situation, mixed US economic news and global central bank policy action.

After confidence crumbled in the third quarter of 2011, October brought improving economic data and more concerted efforts among European leaders toward stemming the region's debt crisis, gradually drawing investors back to the markets. Improving sentiment carried over into early 2012 as investors felt some relief from the world's financial woes. Volatility abated and risk assets (including stocks, commodities and high yield bonds) moved boldly higher through the first two months of 2012 while climbing Treasury yields pressured higher-quality fixed income assets.

Markets reversed course in the spring when Europe's debt problems boiled over once again. High levels of volatility returned as political instability in Greece threatened the country's membership in the euro zone. Spain faced severe deficit issues while the nation's banks clamored for liquidity. Yields on Spanish and Italian government debt rose to levels deemed unsustainable. European leaders conferred and debated vehemently over the need for fiscal integration among the 17 nations comprising the euro currency bloc as a means to resolve the crisis for the long term.

Alongside the drama in Europe, investors were discouraged by gloomy economic reports from various parts of the world. A slowdown in China, a key powerhouse for global growth, became particularly worrisome. In the United States, disappointing jobs reports dealt a crushing blow to sentiment. Risk assets sold off in the second quarter as investors again retreated to safe haven assets.

Despite the continuation of heightened market volatility, most asset classes enjoyed a robust summer rally. Global economic data continued to be mixed, but the spate of downside surprises seen in the second quarter began to recede and, outside of Europe, the risk of recession largely subsided. Central bank policy action has been a major driver of market sentiment in 2012. Investors' anticipation for economic stimulus drove asset prices higher over the summer as the European Central Bank stepped up its efforts to support the region's troubled nations and the US Federal Reserve reiterated its readiness to take action if economic conditions warrant.

On the whole, most asset classes advanced during the reporting period. US large cap stocks delivered strong returns for the 12 months ended August 31, 2012, while small cap stocks and high yield bonds also performed well. Despite the risk-asset rally in recent months, higher-quality investments including tax-exempt municipal bonds and US Treasury bonds posted exceptional gains by historical standards and outperformed investment-grade corporate bonds. International and emerging equities, however, lagged other asset classes amid ongoing global uncertainty. Near-zero short term interest rates kept yields on money market securities near their all-time lows.

We know that investors continue to face a world of uncertainty and volatile markets, but we also believe these challenging times present many opportunities. We remain committed to working with you and your financial professional to identify actionable ideas for your portfolio. We encourage you to visit www.blackrock.com/newworld for more information.

Sincerely,

Rob Kapito

President, BlackRock Advisors, LLC

We know that investors continue to face a world of uncertainty and volatile markets, but we also believe these challenging times present many opportunities.

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Rob Kapito

President, BlackRock Advisors, LLC

Total Returns as of August 31, 2012

	6-month	12-month
US large cap equities	4.14%	18.00%
(S&P 500® Index)		
US small cap equities	0.89	13.40
(Russell 2000® Index)		
International equities	(4.00)	(0.04)
(MSCI Europe, Australasia, Far East Index)		
Emerging market equities (MSCI Emerging Markets Index)	(10.51)	(5.80)
3-month Treasury bill	0.06	0.06
(BofA Merrill Lynch 3-Month US Treasury Bill Index)		
US Treasury securities	5.25	9.14
(BofA Merrill Lynch 10-Year US Treasury Index)		
US investment grade bonds (Barclays US Aggregate Bond Index)	2.97	5.78
Tax-exempt municipal bonds (S&P Municipal Bond Index)	3.24	9.37
US high yield bonds	4.80	13.84
(Barclays US Corporate High Yield 2% Issuer Capped Index)		

Past performance is no guarantee of future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.

THIS PAGE NOT PART OF YOUR FUND REPORT

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Fund Summary as of August 31, 2012

BlackRock Corporate High Yield Fund, Inc.

Investment Objective

BlackRock Corporate High Yield Fund, Inc.'s (COY) (the Fund) investment objective is to provide shareholders with current income by investing primarily in a diversified portfolio of fixed income securities, which are rated in the lower rating categories of the established rating services (BB or lower by Standard & Poor's Corporation (S&P's) or Ba or lower by Moody's Investors Service, Inc. (Moody's)) or are unrated securities considered by BlackRock to be of comparable quality. As a secondary objective, the Fund also seeks to provide shareholders with capital appreciation. The Fund invests, under normal market conditions, at least 80% of its assets in high yield debt instruments, including high yield bonds (commonly referred to as junk bonds) and corporate loans which are below investment grade quality. The Fund may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Fund's investment objectives will be achieved.

Portfolio Management Commentary

How did the Fund perform?

For the six-month period ended August 31, 2012, the Fund returned 6.02% based on market price and 5.85% based on net asset value (NAV). For the same period, the closed-end Lipper High Yield Funds (Leveraged) category posted an average return of 8.15% based on market price and 5.80% based on NAV. All returns reflect reinvestment of dividends. The Fund's premium to NAV, which widened slightly during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV.

What factors influenced performance?

Security selection across the high yield quality spectrum had a positive impact on performance. From a sector perspective, selection among non-captive diversified financials, cable media and wireless names boosted returns.

Conversely, on a sector basis, security selection among non-rated securities detracted from performance. On a sector basis, selection within independent energy, automotive and gaming had a negative impact on returns. The Fund's allocation to bank loans also hindered performance as the asset class underperformed relative to the high yield market in the risk asset rally.

Describe recent portfolio activity.

The Fund began the reporting period increasing its risk profile; however, as risk asset prices surged in 2012, the Fund moderated its degree of risk-taking over the six-month period. While the Fund's view on high yield remained positive throughout this period, as average prices moved north of par for the market, the Fund's holdings became increasingly focused on higher-quality income-oriented credit names with stable fundamentals and an attractive coupon rate, since the potential for price appreciation had largely diminished. With global growth concerns posing a persistent threat and fueling uncertainty, the Fund continued to favor issuers in mature industries that exhibit consistent cash flows and good earnings visibility and debt instruments that are backed by profitable assets. The Fund generally remained cautious of cyclical credits that tend to be more vulnerable to slower economic growth and/or macroeconomic weakness.

Describe portfolio positioning at period end.

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At period end, the Fund held 78% of its total portfolio in corporate bonds and 14% in floating rate loan interests (bank loans), with the remainder in common stocks, preferred securities and other interests. The Fund's largest sector exposures included non-cable media, healthcare and chemicals, while its portfolio holdings reflected less emphasis on the riskier, more cyclical segments of the market such as banking, home construction and restaurants. The Fund ended the period with economic leverage at 27% of its total managed assets.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

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BlackRock Corporate High Yield Fund, Inc.

Fund Information

Symbol on New York Stock Exchange (NYSE)	COY
Initial Offering Date	June 25, 1993
Yield on Closing Market Price as of August 31, 2012 (\$7.89) ¹	7.76%
Current Monthly Distribution per Common Share ²	\$0.051
Current Annualized Distribution per Common Share ²	\$0.612
Economic Leverage as of August 31, 2012 ³	27%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² The distribution rate is not constant and is subject to change.

³ Represents loan outstanding as a percentage of total managed assets, which is the total assets of the Fund (including any assets attributable to borrowings) minus the sum of liabilities (other than borrowings representing financial leverage). For a discussion of leveraging techniques utilized by the Fund, please see The Benefits and Risks of Leveraging on page 14.

The table below summarizes the changes in the Fund's market price and NAV per share:

	8/31/12	2/29/12	Change	High	Low
Market Price	\$ 7.89	\$ 7.76	1.68%	\$ 8.15	\$ 7.13
Net Asset Value	\$ 7.40	\$ 7.29	1.51%	\$ 7.40	\$ 7.00

The following charts show the portfolio composition of the Fund's long-term investments and credit quality allocations of the Fund's corporate bond investments:

Portfolio Composition

	8/31/12	2/29/12
Corporate Bonds	78%	80%
Floating Rate Loan Interests	14	12
Common Stocks	5	5
Preferred Securities	2	2
Other Interests	1	1

Credit Quality Allocations⁴

	8/31/12	2/29/12
A	1%	1%
BBB/Baa	5	6
BB/Ba	36	42
B	43	40
CCC/Caa	13	10
Not Rated	2	1

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⁴ Using the higher of S&P's or Moody's ratings.

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Fund Summary as of August 31, 2012

BlackRock Corporate High Yield Fund III, Inc.

Investment Objective

BlackRock Corporate High Yield Fund III, Inc.'s (CYE) (the Fund) primary investment objective is to provide current income by investing primarily in fixed-income securities, which are rated in the lower rating categories of the established rating services (BBB or lower by S&P's or Baa or lower by Moody's) or are unrated securities of comparable quality. The Fund's secondary investment objective is to provide capital appreciation. The Fund may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Fund's investment objectives will be achieved.

Portfolio Management Commentary

How did the Fund perform?

For the six-month period ended August 31, 2012, the Fund returned 9.12% based on market price and 6.10% based on NAV. For the same period, the closed-end Lipper High Yield Funds (Leveraged) category posted an average return of 8.15% based on market price and 5.80% based on NAV. All returns reflect reinvestment of dividends. The Fund's premium to NAV, which widened during the period, accounts for the difference between performance based on price and performance based on NAV. The following discussion relates to performance based on NAV.

What factors influenced performance?

Security selection across the high yield quality spectrum had a positive impact on performance. From a sector perspective, selection among non-captive diversified financials, cable media and wireless names boosted returns.

Conversely, on a sector basis, security selection among non-rated securities detracted from performance. On a sector basis, selection within independent energy, automotive and gaming had a negative impact on returns. The Fund's allocation to bank loans also hindered performance as the asset class underperformed relative to the high yield market in the risk asset rally.

Describe recent portfolio activity.

The Fund began the reporting period increasing its risk profile; however, as risk asset prices surged in 2012, the Fund moderated its degree of risk-taking over the six-month period. While the Fund's view on high yield remained positive throughout this period, as average prices moved north of par for the market, the Fund's holdings became increasingly focused on higher-quality income-oriented credit names with stable fundamentals and an attractive coupon rate, since the potential for price appreciation had largely diminished. With global growth concerns posing a persistent threat and fueling uncertainty, the Fund continued to favor issuers in mature industries that exhibit consistent cash flows and good earnings visibility and debt instruments that are backed by profitable assets. The Fund generally remained cautious of cyclical credits that tend to be more vulnerable to slower economic growth and/or macroeconomic weakness.

Describe portfolio positioning at period end.

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At period end, the Fund held 75% of its total portfolio in corporate bonds and 17% in floating rate loan interests (bank loans), with the remainder in common stocks, preferred securities and other interests. The Fund's largest sector exposures included non-cable media, healthcare and chemicals, while its portfolio holdings reflected less emphasis on the riskier, more cyclical segments of the market such as banking, home construction and retailers. The Fund ended the period with economic leverage at 29% of its total managed assets.

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BlackRock Corporate High Yield Fund III, Inc.

Fund Information

Symbol on NYSE	CYE
Initial Offering Date	January 30, 1998
Yield on Closing Market Price as of August 31, 2012 (\$8.11) ¹	7.77%
Current Monthly Distribution per Common Share ²	\$0.0525
Current Annualized Distribution per Common Share ²	\$0.6300
Economic Leverage as of August 31, 2012 ³	29%

¹ Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

² The distribution rate is not constant and is subject to change.

³ Represents loan outstanding as a percentage of total managed assets, which is the total assets of the Fund (including any assets attributable to borrowings) minus the sum of liabilities (other than borrowings representing financial leverage). For a discussion of leveraging techniques utilized by the Fund, please see The Benefits and Risks of Leveraging on page 14.

The table below summarizes the changes in the Fund's market price and NAV per share:

	8/31/12	2/29/12	Change	High	Low
Market Price	\$ 8.11	\$ 7.75	4.65%	\$ 8.12	\$ 7.15
Net Asset Value	\$ 7.54	\$ 7.41	1.75%	\$ 7.54	\$ 7.11

The following charts show the portfolio composition of the Fund's long-term investments and credit quality allocations of the Fund's corporate bond investments:

Portfolio Composition

	8/31/12	2/29/12
Corporate Bonds	75%	77%
Floating Rate Loan Interests	17	15
Common Stocks	5	6
Preferred Securities	2	2
Other Interests	1	

Credit Quality Allocations⁴

	8/31/12	2/29/12
A	1%	1%
BBB/Baa	5	7
BB/Ba	35	38
B	43	43
CCC/Caa	13	10
Not Rated	3	1

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⁴ Using the higher of S&P's or Moody's ratings.

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Fund Summary as of August 31, 2012

BlackRock Debt Strategies Fund, Inc.

Investment Objective

BlackRock Debt Strategies Fund, Inc.'s (DSU) (the Fund) primary investment objective is to provide current income by investing primarily in a diversified portfolio of US companies' debt instruments, including corporate loans, which are rated in the lower rating categories of the established rating services (BBB or lower by S&P's or Baa or lower by Moody's) or unrated debt instruments, which are in the judgment of the investment adviser of equivalent quality. The Fund's secondary objective is to provide capital appreciation. Corporate loans include senior and subordinated corporate loans, both secured and unsecured. The Fund may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Fund's investment objectives will be achieved.

Portfolio Management Commentary

How did the Fund perform?

For the six-month period ended August 31, 2012, the Fund returned 10.04% based on market price and 5.51% based on NAV. For the same period, the closed-end Lipper High Yield Funds (Leveraged) category posted an average return of 8.15% based on market price and 5.80% based on NAV. All returns reflect reinvestment of dividends. The Fund began the period with neither a discount nor a premium to NAV, and moved to a premium by period end. The following discussion relates to performance based on NAV.

What factors influenced performance?