

SSI Hedged Convertible Strategies: 2019 Mid-year Review & Outlook

By: George Douglas, CFA, Chief Investment Officer

The convertible market has been evolving over recent years, with an uptick in issuance and many companies experiencing rapid growth while generating positive cash flow and maintaining strong balance sheets. SSI manages two hedged convertible strategies (Hedged Convertible Opportunity Strategy “HCO” & Hedged Convertible Income Strategy “HCI”) that continue to benefit from this evolution and have had a solid start in the first half of 2019. Returns for the first half of 2019 are shown below, along with returns over longer time frames:

	YTD						Annualized Since
	2019*	1 YR	3 YRS	5 YRS	10 YRS	15 YRS	Inception
							4/1/2001
SSI HCO Strategy (gross of fee)	8.49%	6.93%	8.78%	5.07%	9.66%	7.23%	8.93%
HFRX Convertible Arb Index	2.64%	0.88%	4.30%	0.79%	4.41%	-1.49%	0.16%

	YTD						Annualized Since
	2019*	1 YR	3 YRS	5 YRS	10 YRS	15 YRS	Inception
							1/1/1995
SSI HCI Strategy (gross of fee)	5.23%	5.86%	5.70%	3.67%	5.46%	5.31%	6.39%
3 Month T-Bill**	1.21%	2.30%	1.36%	0.84%	0.46%	1.31%	2.39%

With a gain of 8.49% for the Hedged Convertible Opportunity Strategy YTD through June 30 we are solidly ahead of goal (the long-term goal is 5-7% over T-Bills with a 5-7% standard deviation). The Convertible Income Strategy gained 5.23% in the first half, also nicely ahead of targeted goal (the long term goal is 3-4% over T-Bills with a 3-4% standard deviation). In addition, the risk attributes of both strategies for the last several years have been better than targeted:

	SSI Hedged Convertible Opportunity Strategy* Inception: 4/1/2001		SSI Convertible Income Strategy* Inception: 1/1/1995	
	Standard Deviation	Sharpe Ratio	Standard Deviation	Sharpe Ratio
1 YR	3.77%	1.23	1.72%	2.08
3 YRS	2.99%	2.49	1.40%	3.10
5 YRS	4.50%	0.94	2.30%	1.23
7 YRS	4.17%	1.35	2.10%	1.62
10 YRS	5.53%	1.66	2.69%	1.86
15 YRS	7.09%	0.84	3.36%	1.19
Since Inception	7.15%	1.05	3.08%	1.30

**SSI preliminary, gross of fee(s) performance as of June 30, 2019. Standard deviation and Sharpe ratios based on gross of fee performance.*

Past performance is not necessarily indicative of future results. Please see the accompanying disclosure at the end of document for a discussion of performance methodology.

***FTSE 3-Month Treasury Bill*

SSI's Strategies are benefitting from the evolution of the convertible market in recent years. Issuance has been active, and issuance is coming primarily from rapidly growing companies in dynamic sectors like Technology and Health Care. Different from past cycles is the strong financial profile of issuers, particularly in the Technology sector. Companies engaged in software as a service, or the internet, tend not to be capital intensive, and in many cases are growing rapidly while generating positive cash flow and earnings and maintaining strong balance sheets. Credit profiles are therefore generally quite solid. At the same time, the equities of many of these issuers trade at elevated valuations, which imparts above average volatility to the stock. Convertible arbitrage is able to monetize this equity volatility by actively adjusting equity hedge ratios, and in some cases selling call options in addition to the short position in the common stock.

While second half returns may not maintain the pace of the first half, the outlook remains favorable. We think issuance will remain active and skewed toward fast-growing companies, providing opportunity to exploit the greater equity volatility of growth equities. We build baseline returns upon the income element of the portfolio, anticipated returns from equity volatility, and identification of mispriced convertible securities. When we do this exercise at present we see the return potential going forward consistent with long term targets.

Many alternative strategies have struggled in recent years and failed to meet objectives. Crowding in the alternative space is a challenge and alpha in general is a scarce commodity. The convertible market is one of the less crowded sectors for alternatives and the opportunity set provides a return/risk profile consistent with institutional objectives, something that has become increasingly rare in today's investment landscape.

SSI Investment Management LLC believes all the information contained in the report to be accurate but we do not guarantee its accuracy. The analyst(s) principally responsible for the preparation of this research report certify that the views expressed in this research report accurately reflect his/her (their) personal views about the subject security (ies) or issuer(s) and that his/her (their) compensation was not, is not, or will not be directly or indirectly related to the specific recommendations or views contained in this research report. None of the information reported or opinions expressed constitute a solicitation of the purchase or sale of securities or any commodities.

SSI operated under the name of SSI Investment Management, Inc. (1/1/1973-4/30/2019) and as of 5/1/2019 operates as SSI Investment Management LLC.

SSI Investment Management LLC ("SSI") claims compliance with the Global Investment Performance Standards (GIPS®).

Definition of the Firm

SSI was established in 1973 and is a Registered Investment Advisor based in Los Angeles, CA. SSI manages assets in domestic and global capital markets. SSI applies quantitative disciplines and fundamental research in its management of alternative and traditional portfolios for institutional and high net-worth investors. SSI manages separate accounts, limited partnerships and acts as sub-advisor to mutual funds. Effective June 1, 2019, Resolute Investment Managers, Inc. will have a majority interest in SSI, however, SSI will continue to operate independently. SSI does not have any subsidiaries. SSI acquired the assets of Frole, Revy Investment Co., Inc. ("Frole, Revy") and its composites as of March 1, 2009.

Policies

SSI's policies for valuing portfolios, calculating performance, and preparing compliant presentations is available upon request.

The Composite & Benchmark

The SSI Convertible Income Strategy (composite created January 1, 1995) invests long in a diversified portfolio of convertible bonds/preferreds and short the underlying common stocks to attempt to achieve an absolute return. The composite contains fully discretionary accounts including those no longer with the firm. With interest rebates on short sales and coupon interest on convertible bonds comprising a consistent and important component of the return of the SSI Convertible Income Strategy, SSI believes a performance comparison versus the FTSE 3 Month Treasury Bill ("3 Month T-Bill") is appropriate. The volatility of this strategy is expected to be greater than the volatility of the 3 Month Treasury Bill due to the inclusion of convertible and equity positions. The return, if any, above the 90-Day Treasury Bill is dependent upon higher interest income available in the convertible market and SSI's discretionary management. Any other indices shown are not necessarily comparable to SSI's Convertible Income Strategy. These are widely recognized market indices that are shown for informational purposes only. The composite name was formally known as SSI Hedged Convertible Income Strategy from 1/1/1995 – 6/30/2008 and on 7/1/2008 the new composite name became the SSI Convertible Income Strategy. Citigroup's 90 Day T-Bill was acquired by London Stock Exchange Group (LSEG) and beginning 8/1/2018 the new name is FTSE 3 Month Treasury Bill ("3 Month T-Bill").

Use of Leverage, Derivatives, and Shorts

Leverage is not used in SSI's Convertible Income Strategy and the use of derivatives is not material. The Strategy is generally fully hedged and involves buying a convertible bond/preferred and shorting the underlying common stock in order to reduce the equity exposure. Every long position is hedged with an offsetting short.

Investment Management Fees

Returns are presented gross and net of management fee. Actual results of an individual account may be materially different from the performance shown herein because of differences in inception date, transaction and related costs, restrictions, fees and other factors. All performance is based in U.S. dollars and reflect, on a percentage basis for each of the periods indicated: (a) the net increase (decrease) of all SSI Convertible Income Strategy portfolios, dollar-weighted, including adjustments for unrealized gains and losses, the reinvestment of dividends and other earnings, the deduction of investment costs, the deduction of limited partnership and/or mutual fund costs (if any), time-weighted to adjust for additions and withdrawals, and (b) the net increase (decrease) of the 90-Day Treasury bill.

Net performance is reduced by SSI's actual investment management fees and model fees (1995-2018). 1% annual fee is used for any model fees. Gross performance does not include deduction of SSI's investment management fees.

If performance is gross of management fees, client's actual return will be reduced by the management fees and any other expenses which may be incurred in the management of an investment advisory account. See SSI's Form ADV, Part 2A for a complete description of the investment advisory fees customarily charged by SSI. As an example, an account with an initial \$1,000,000 investment on January 1, 2003, earning a recurring 5% semi-

annual gross return (10.25% annualized), and paying a .5% semi-annual management fee (1% annual fee) would have grown to \$1,340,096 on a gross of fees basis and \$1,300,392 on a net of fees basis by December 31, 2005 (3 years).

List of Composites

A list of the Firm's composite descriptions and/or compliant presentations are available upon request. Please contact juliea@ssi-invest.com.

Additional Disclosure

- SSI operated under the name of SSI Investment Management, Inc. (1/1/1973-4/30/2019) and as of 5/1/2019 operates as SSI Investment Management LLC.
- When representative portfolio information is shown the representative portfolio is selected by comparing any one (but not limited to) the following criteria: most in line with composite investment objectives /consistency of investment strategy, investment restrictions, fee structure, time frame managed, type of client, size of account.
- Performance prior to January 1, 2000 does not comply with the GIPS standards.
- SSI acquired Frolely Revy and its composites as of March 1, 2009. Prior to the acquisition, Frolely Revy claimed GIPS compliance for the periods of 1983-2008 and was independently verified by Ashland Partners & Co.

Investors must assess the suitability of any particular investment opportunity and carry out any due diligence that they require in relation to the strategy or investments or individual holdings of the strategies that SSI manages. In doing this, investors should seek separate advice. It should not be assumed that recommendations made will be profitable and any investment is at risk of loss. This summary represents the views of the portfolio managers as of the date noted at the beginning of this document. Any holdings mentioned in the accompanying summary are from its stated strategy. Portfolio holdings are subject to change without notice and are not intended as recommendations of individual securities. The information in this article is not intended to be personalized recommendations to buy, hold or sell investments. The information, statements, views and opinions included in this article are based on sources (both internal and external sources) considered to be reliable, but no representation or warranty, express or implied, is made as to their accuracy, completeness or correctness. Such information, statements, views and opinions are expressed as of the date of this article, are subject to change without further notice and do not constitute a solicitation for the purchase or sale of any investment referenced in the article.

THIS MATERIAL IS INTENDED ONLY FOR QUALIFIED INVESTORS. IT DOES NOT CONSTITUTE AN OFFER TO PURCHASE AN INTEREST IN ANY PRIVATELY OFFERED FUND MANAGED BY SSI. SSI BELIEVES THAT RESULTS WERE GENERATED WITH AN INVESTMENT PHILOSOPHY AND METHODOLOGY SIMILAR TO THAT DESCRIBED HEREIN. FURTHERMORE, THE PERFORMANCE DISCUSSED HEREIN REFLECTS INVESTMENT OF LIMITED FUNDS FOR A LIMITED PERIOD OF TIME AND DOES NOT REFLECT PERFORMANCE IN DIFFERENT ECONOMIC OR MARKET CYCLES. FUTURE INVESTMENTS, HOWEVER, WILL BE MADE UNDER DIFFERENT ECONOMIC CONDITIONS, IN DIFFERENT SECURITIES AND USING DIFFERENT INVESTMENT STRATEGIES. IT SHOULD NOT BE ASSUMED THAT FUTURE INVESTORS WILL EXPERIENCE RETURNS, IF ANY, COMPARABLE TO THOSE DISCLOSED HEREIN. THE INFORMATION GIVEN IS HISTORIC AND SHOULD NOT BE TAKEN AS ANY INDICATION OF FUTURE PERFORMANCE. THE PERFORMANCE DATA WAS PREPARED BY SSI AND WAS NOT COMPILED, REVIEWED OR AUDITED BY AN INDEPENDENT ACCOUNTANT. BEING REGISTERED AS A REGISTERED INVESTMENT ADVISOR DOES NOT IMPLY A CERTAIN LEVEL OF SKILL OR TRAINING. ANY INVESTMENT IS SUBJECT TO RISK OF LOSS. ANY USE OF LEVERAGE INCREASES THE INVESTMENT GAIN OR LOSS IN DIRECT PROPORTION TO THE DEGREE OF LEVERAGE USED.

Compliance Statement

SSI Investment Management LLC ("SSI") claims compliance with the Global Investment Performance Standards (GIPS®).

Definition of the Firm

SSI was established in 1973 and is a Registered Investment Advisor based in Los Angeles, CA. SSI manages assets in domestic and global capital markets. SSI applies quantitative disciplines and fundamental research in its management of alternative and traditional portfolios for institutional and high net-worth investors. SSI manages separate accounts, limited partnerships and acts as sub-advisor to mutual funds. Effective June 1, 2019, Resolute Investment Managers, Inc. will have a majority interest in SSI, however, SSI will continue to operate independently. SSI does not have any subsidiaries. SSI acquired the assets of Frole, Revy Investment Co., Inc. ("Frole, Revy") and its composites as of March 1, 2009.

Policies

SSI's policies for valuing portfolios, calculating performance, and preparing compliant presentations is available upon request.

The Composite & Benchmark

The SSI Hedged Convertible Opportunity Strategy composite was created on April 1, 2001 and invests long in a diversified portfolio of convertible bonds/preferreds and short the underlying common stocks to attempt to achieve an absolute return. We expect to use leverage all or most of the time within this strategy. The composite contains fully discretionary accounts including those no longer with the firm. Interest rebates on short sales and coupon interest on convertible bonds/preferreds comprise a consistent and important component of the return. SSI has historically used the FTSE 3 Month Treasury Bill ("3 Month T-Bill"), formerly called 90 Day T-Bill (name change as of 8/1/2018 when Citigroup's 90 Day T-Bill was acquired by London Stock Exchange Group - LSEG) as the benchmark for its Hedged Convertible Opportunity Strategy (4/1/2001 – 12/31/2016), however, as of 1/1/2017 the benchmark was retroactively changed to the HFRX Convertible Arbitrage Index. HFRX Convertible Arbitrage Index includes strategies based on a realized spread between related instruments in which one or multiple components of the spread is a convertible fixed income instrument. SSI believes a performance comparison versus the HFRX Convertible Arbitrage Index is appropriate as the portfolios in the new benchmark better match the characteristics of SSI's Hedged Convertible Opportunity Strategy than the FTSE 3 Month Treasury Bill. The volatility of this strategy may be materially different although we expect it to be generally lower than the volatility of the HFRX Convertible Arbitrage Index due to SSI's lower leverage and hedging techniques as well as other potential differences. The return, if any, above the HFRX Convertible Arbitrage Index is typically dependent upon SSI's discretionary management. Any other indices shown are not necessarily comparable to SSI's Hedged Convertible Opportunity Strategy. These are widely recognized market indices that are shown for informational purposes only. The composite name was formally known as SSI Hedged Convertible Market Neutral Leveraged Strategy from 4/1/2001 – 6/30/2008 and on 7/1/2008 the new composite name became the SSI Hedged Convertible Opportunity Strategy.

Use of Leverage, Derivatives, and Shorts

Leverage is utilized in the HC Opportunity Strategy. Leverage is defined as gross longs over capital. The strategy has the ability to be levered up to 3Xs but is generally in the 1.5 – 2Xs range and the use of derivatives is not material. The Strategy is generally fully hedged and involves buying a convertible bond/preferred and shorting the underlying common stock in order to reduce the equity exposure. Every long position is hedged with an offsetting short.

Investment Management Fees

Returns are presented gross and net of management fee. Actual results of an individual account may be materially different from the performance shown herein because of differences in inception date, transaction and related costs, restrictions, fees and other factors. All performance is based in U.S. dollars and reflect, on a percentage basis for each of the periods indicated: (a) the net increase (decrease) of all SSI Hedged Convertible Opportunity Strategy portfolios during the period, dollar-weighted, including adjustments for unrealized gains and losses, the reinvestment of dividends and other earnings, the deduction of investment costs, the deduction of limited partnership and/or mutual fund costs (if any), time-weighted to adjust for additions and withdrawals, and (b) the net increase (decrease) of the HFRX Convertible Arbitrage Index. The SSI Hedged Convertible Opportunity Fund, SPC which is included in the SSI Hedged Convertible Opportunity Strategy Composite from May 2008 to December 2009, incurred administrative costs that are approximately between two and eight basis points higher per month than the costs of other accounts included in the composite. Effective February 2017 foreign investor withholding tax is treated as a cash flow. Prior to February 2017, it was treated as an expense.

Net performance is reduced by SSI's investment management fees which includes performance fees. Gross performance does not include deduction of SSI's investment management or performance fees.

If performance is gross of management fees, client's actual return will be reduced by the management fees and any other expenses which may be incurred in the management of an investment advisory account. See SSI's Form ADV, Part 2A for a complete description of the investment advisory fees customarily charged by SSI. As an example, an account with an initial \$1,000,000 investment on January 1, 2003, earning a recurring 5% semi-annual gross return (10.25% annualized), and paying a .5% semi-annual management fee (1% annual fee) would have grown to \$1,340,096 on a gross of fees basis and \$1,300,392 on a net of fees basis by December 31, 2005 (3 years).

List of Composites

A list of the Firm's composite descriptions and/or compliant presentations are available upon request. Please contact juliea@ssi-invest.com.

Additional Disclosure

- SSI operated under the name of SSI Investment Management, Inc. (1/1/1973-4/30/2019) and as of 5/1/2019 operates as SSI Investment Management LLC.
- When representative portfolio information is shown the representative portfolio is selected by comparing any one (but not limited to) the following criteria: most in line with composite investment objectives /consistency of investment strategy, investment restrictions, fee structure, time frame managed, type of client, size of account.
- Performance prior to January 1, 2000 does not comply with the GIPS standards.
- SSI acquired Frolely Revy and its composites as of March 1, 2009. Prior to the acquisition, Frolely Revy claimed GIPS compliance for the periods of 1983-2008 and was independently verified by Ashland Partners & Co.

Investors must assess the suitability of any particular investment opportunity and carry out any due diligence that they require in relation to the strategy or investments or individual holdings of the strategies that SSI manages. In doing this, investors should seek separate advice. It should not be assumed that recommendations made will be profitable and any investment is at risk of loss. This summary represents the views of the portfolio managers as of the date noted at the beginning of this document. Any holdings mentioned in the accompanying summary are from its stated strategy. Portfolio holdings are subject to change without notice and are not intended as recommendations of individual securities. The information in this article is not intended to be personalized recommendations to buy, hold or sell investments. The information, statements, views and opinions included in this article are based on sources (both internal and external sources) considered to be reliable, but no representation or warranty, express or implied, is made as to their accuracy, completeness or correctness. Such information, statements, views and opinions are expressed as of the date of this article, are subject to change without further notice and do not constitute a solicitation for the purchase or sale of any investment referenced in the article.

THIS MATERIAL IS INTENDED ONLY FOR QUALIFIED INVESTORS. IT DOES NOT CONSTITUTE AN OFFER TO PURCHASE AN INTEREST IN ANY PRIVATELY OFFERED FUND MANAGED BY SSI. SSI BELIEVES THAT RESULTS WERE GENERATED WITH AN INVESTMENT PHILOSOPHY AND METHODOLOGY SIMILAR TO THAT DESCRIBED HEREIN. FURTHERMORE, THE PERFORMANCE DISCUSSED HEREIN REFLECTS INVESTMENT OF LIMITED FUNDS FOR A LIMITED PERIOD OF TIME AND DOES NOT REFLECT PERFORMANCE IN DIFFERENT ECONOMIC OR MARKET CYCLES. FUTURE INVESTMENTS, HOWEVER, WILL BE MADE UNDER DIFFERENT ECONOMIC CONDITIONS, IN DIFFERENT SECURITIES AND USING DIFFERENT INVESTMENT STRATEGIES. IT SHOULD NOT BE ASSUMED THAT FUTURE INVESTORS WILL EXPERIENCE RETURNS, IF ANY, COMPARABLE TO THOSE DISCLOSED HEREIN. THE INFORMATION GIVEN IS HISTORIC AND SHOULD NOT BE TAKEN AS ANY INDICATION OF FUTURE PERFORMANCE. THE PERFORMANCE DATA WAS PREPARED BY SSI AND WAS NOT COMPILED, REVIEWED OR AUDITED BY AN INDEPENDENT ACCOUNTANT. BEING REGISTERED AS A REGISTERED INVESTMENT ADVISOR DOES NOT IMPLY A CERTAIN LEVEL OF SKILL OR TRAINING. ANY INVESTMENT IS SUBJECT TO RISK OF LOSS. ANY USE OF LEVERAGE INCREASES THE INVESTMENT GAIN OR LOSS IN DIRECT PROPORTION TO THE DEGREE OF LEVERAGE USED.