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Form ADV Part 2A Brochure  
March 31, 2014

This brochure provides information about the qualifications and business practices of Arrowstreet Capital, Limited Partnership (Arrowstreet). Arrowstreet is a registered investment adviser with the United States Securities and Exchange Commission (SEC) under the U.S. Investment Advisers Act of 1940, as amended. Registration as an investment adviser under applicable SEC rules and regulations does not imply any level of skill or training. The information in this brochure has not been approved or verified by the SEC or by any U.S. state or other securities authority.

If you have any questions about the contents of this brochure, or would like a copy of this brochure, you may contact Eric Burnett by telephone at 617-919-0000 or by electronic mail at [regcompliance@arrowstreetcapital.com](mailto:regcompliance@arrowstreetcapital.com). Additional information about Arrowstreet also is available on the SEC's website at [www.adviserinfo.sec.gov](http://www.adviserinfo.sec.gov).

## **Item 2 - Material Changes**

We last filed our brochure with the SEC on January 10, 2014. This brochure contains the following changes and/or updates to the information set forth in our most recent filing which may be considered material:

- Item 4 has been updated to reflect changes to our principal ownership and to include a new corporate actions service provider to the firm;
- Item 5 has been updated to add a new investment strategy;
- Item 15 has been updated with respect to the Long/Short Fund.

We may, at any time, update this brochure and send you a copy by electronic mail or in hard copy form. Clients should carefully review this brochure and address any questions to the Arrowstreet personnel identified on the cover page of this brochure.

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### Attachments

Form ADV Part 2B Brochure Supplement (Items 1-6)

**This brochure provides clients and prospective clients with information about Arrowstreet Capital, Limited Partnership that should be considered before or at the time of obtaining advisory services from us. Please retain a copy of this brochure (and any updates) for your future reference.**

## **Item 4 – Advisory Business**

### ***Firm Overview***

Arrowstreet is a discretionary institutional global asset manager that was founded in June 1999. Arrowstreet has been a registered investment adviser with the SEC under the U.S. Investment Advisers Act of 1940, as amended (referred to in this brochure as the Advisers Act), since July 1999. Our principal place of business is located at 200 Clarendon Street, 30th Floor, Boston, Massachusetts.

### ***Ownership Structure and Leadership***

We are organized as a Massachusetts limited partnership whose general partner is Arrowstreet Capital GP LLC (f/k/a Arrowstreet PBJ LLC) (a Delaware limited liability company) and whose sole limited partner is Arrowstreet Capital Holding LLC (a Delaware limited liability company), the ultimate owner of Arrowstreet. Arrowstreet Capital Holding LLC is the sole member of, and wholly-owns, Arrowstreet Capital GP LLC. Arrowstreet Capital Holding LLC is wholly-owned and controlled by Arrowstreet's senior management team (including the principal owners above) and its non-executive directors. No member of Arrowstreet Capital Holding LLC owns more than 25% of its membership interests.

Our executive leadership team consists of Messrs. Anthony W. Ryan, President and Chief Executive Officer, Bruce E. Clarke, Executive Chairman and Peter L. Rathjens, Chief Investment Officer. Messrs. Ryan, Clarke and Rathjens devote all of their business time and effort to Arrowstreet.

Our board of directors consists of five executive directors, Messrs. Ryan, Clarke, Rathjens, John Y. Campbell, Co-Director of Research (who in addition to his service at Arrowstreet serves at the Morton L. and Carole S. Olshan Professor of Economics at Harvard University, Cambridge, Massachusetts), and Mr. Tuomo O. Vuolteenaho, Co-Director of Research; and four non-executive directors, Messrs. Thomas J. DeLong, Albert S. Kyle, Richard I. Morris, Jr. and Ms. Vaithehi Muttulingam.

### ***Description of Advisory Services***

We offer institutional investors a select range of equity investment strategies that are broadly categorized as global equity/international equity, emerging markets equity and long/short equity. Our investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into our proprietary return, risk and transaction cost models. Our investment approach involves creating and investing in diversified equity portfolios. We utilize a structured investment process that attempts to add value relative to a client specific benchmark. This involves identifying opportunities across companies, sectors and countries by evaluating a diverse set of fundamental and market-based predictive factors. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models.

Depending on the particular client mandate, we also may offer advice on forward foreign currency contracts, options on foreign currency, futures, interest rates, currency, equity swap transactions, real estate investment trusts and repurchase agreements. We seek to effect transactions in derivatives pursuant to established legal frameworks, such as the International Swaps and Derivatives Association form (ISDA Master Agreement) and the International Foreign Exchange Master Agreement form (IFEMA) and, where applicable, negotiated agreements with futures commission merchants.

We do not currently incorporate specific environmental, social and corporate governance (ESG) information into our investment process. We may periodically evaluate various signals associated with

ESG principles as well as related third-party academic research to identify potential alpha or risk implications associated with ESG-based signals. Any potential signal associated with ESG principles will be evaluated in a manner consistent with other signals prior to inclusion in our investment process.

In addition, our investment process does not take into consideration a particular client's tax characteristics or attributes, including those that specifically apply to the portfolio of assets we manage. We do not monitor global tax laws, rules or regulations with respect to client accounts. In addition, we do not manage tax reclaims for client accounts. Please refer to Item 8 under the subheading "*Taxes*" for a discussion of tax-related risks relating to our investment strategies.

Please refer to Item 8 for a discussion of our equity investment strategies and certain material risks related to such strategies.

### ***Separately Managed Accounts and Pooled Investment Funds***

Prospective clients may, depending on their desired investment strategy and funds available for investment, generally choose to have a separately managed account or invest through a pooled investment fund sponsored and promoted by Arrowstreet, each as more fully described below.

*Separate Accounts.* A separate account is a client specific portfolio individually managed according to one of our offered equity investment strategies. Examples of separate account clients include public pension funds, corporate pension plans, endowments and registered or unregistered pooled investment funds for which we serve as adviser or sub-adviser. Separate account clients typically grant us discretionary authority to manage and invest client assets allocated to the account, subject to the client's stated investment objective and investment guidelines. Each separate account is subject to the terms of an investment management agreement or other similar agreement between Arrowstreet and the relevant client. While Arrowstreet generally does not tailor its advisory services to the individual needs of its clients, clients may impose restrictions on investing in certain securities (or types of securities) or other limitations. Please see Item 16 for more information regarding our investment discretion over client accounts.

*Pooled Investment Funds.* A pooled investment fund is a commingled fund of the assets of multiple clients that is managed according to one of our offered investment strategies. Arrowstreet clients, where eligible, may choose to invest in the following pooled investment funds:

- Arrowstreet Multi-Strategy Umbrella PLC, an investment company with variable capital incorporated with limited liability in Ireland and established as an umbrella fund with segregated liability between sub-funds (referred to in this brochure as the QIF);
- The Arrowstreet US Group Trust, a U.S. group trust organized under New York law that is designed to permit qualified employee benefit plans and certain governmental plans to commingle assets for investment purposes on a tax-exempt basis and established as an umbrella fund with segregated liability between sub-funds (referred to in this brochure as the US Group Trust);
- Arrowstreet Capital Global Equity Long/Short Fund (Feeder) Limited, a Cayman Islands exempted company with limited liability (referred to in this brochure as the Long/Short Feeder Fund). The Long/Short Feeder Fund invests substantially all of its assets in Arrowstreet Capital Global Equity Long/Short Fund Limited, a Cayman Islands exempted company with limited liability (referred to in this brochure as the Long/Short Master Fund). Arrowstreet Capital

Holding LLC (described above under “Ownership Structure and Leadership”) and the Long/Short Feeder Fund are the sole investors in the Long/Short Master Fund. Only the Long/Short Feeder Fund is open to prospective investors. The Long/Short Feeder Fund and the Long/Short Master Fund are collectively referred to in this brochure as the Long/Short Fund.

- The Arrowstreet Common Contractual Fund, an open-ended umbrella common contractual fund established as an undertaking for collective investment in transferable securities under the laws of Ireland pursuant to the European Communities (Undertakings for Collective Investment in Transferable Securities) (UCITS) Regulations, 2011, as amended, and established as an umbrella fund with segregated liability among its sub-funds (referred to in this brochure as the CCF).

The QIF currently has six sub-funds (referred to in this brochure as QIF sub-funds); the US Group Trust currently has five sub-funds (referred to in this brochure as US Group Trust sub-funds); and the CCF currently has four sub-funds (referred to in this brochure as CCF sub-funds). The QIF sub-funds, US Group Trust sub-funds, CCF sub-funds, and the Long/Short Fund are collectively referred to in this brochure as the Arrowstreet Private Funds. Each Arrowstreet Private Fund is managed according to a specific investment strategy. Please see Item 5 and Item 8 for more information.

Arrowstreet does not invest the assets of separately managed client accounts in Arrowstreet Private Funds, and Arrowstreet does not invest the assets of separately managed client accounts in any other pooled investment fund for which we serve as adviser or sub-adviser. Clients may choose to invest in one or more Arrowstreet Private Funds or other pooled investment funds for which we serve as adviser or sub-adviser directly for their own account in addition to having a separately managed account with us.

### ***Affiliated Irish Management Company***

Arrowstreet Capital Ireland Limited (ACIL) is a wholly owned subsidiary of Arrowstreet Capital Holding LLC. Effective February 28, 2013, ACIL serves as the UCITS management company for the CCF.

### ***Affiliated Marketing Offices***

Our firm has affiliated marketing offices located in the U.K. and Australia that focus on client relationship management and marketing activities.

- Arrowstreet Capital Europe Limited (ACEL) is a private company limited by shares. ACEL engages in client relationship management and permitted marketing activities throughout Europe. ACEL is authorised and regulated in the U.K. by the Financial Conduct Authority to advise on certain investments, arrange deals in investments and make arrangements with a view to transactions in investments. Its registered office is 130 Wood Street, London, United Kingdom EC2V6DL.
- Arrowstreet Capital Australia Pty. Ltd. (ACA) is a proprietary company limited by shares under the Corporations Act 2001 in Victoria, Australia. ACA engages in client relationship management and permitted marketing activities throughout the Asia-Pacific region. ACA is licensed by the Australian Securities and Investments Commission to provide general financial product advice to wholesale clients with respect to specific classes of financial products. Its registered office is Level 61, MLC Centre, 19 Martin Place, Sydney NSW 2000.

### ***Back-Office Service Provider***

Arrowstreet engages a third party service provider to provide administrative back-office, accounting and record keeping services, including trade settlement processing and custodial communications. Periodic reports prepared for clients are generally based on the records of our service provider.

### ***Corporate Action Service Provider***

Arrowstreet engages a third party service provider to provide certain corporate action administrative and processing services with respect to client accounts. In order for us to utilize this service with respect to client accounts, each client must authorize their custodian to provide the relevant corporate action information to our service provider.

### ***Shareholder Claims Monitoring; Participation in Legal Proceedings***

With respect to our separate account clients, Arrowstreet does not monitor the occurrence or status of legal proceedings or claims affecting securities held in client accounts. From time to time we receive notices with respect to securities held or previously held in client accounts that become subject to legal proceedings, including class action claims or bankruptcies. It is our policy not to file claims or take any other action with respect to these legal proceedings, including filing proofs of claims and related documents. Clients or their custodians are responsible for arranging for the supervision and management of all such shareholder matters.

With respect to the Arrowstreet Private Funds, we engage an independent third party claims processing service or the relevant custodian to process claims on behalf of such funds.

### ***Assets Under Management***

As of February 28, 2014, Arrowstreet had approximately \$50.4 billion in assets under management. All of these assets were managed on a discretionary basis.

## **Item 5 – Fees and Compensation**

### ***Separate Accounts***

Separate account advisory fees may be structured as asset-based fees or as performance fees, depending on the client account. Arrowstreet generally invoices advisory fees on separate accounts on a quarterly basis, typically in arrears. However, certain advisory fees may be charged in advance (generally not to exceed one quarter) of investment advisory services performed if requested by the client. We do not instruct clients or their custodians, trustees, administrators or other similar service providers to deduct advisory fees from client accounts managed by us.

While advisory fees and minimum separate account size is generally negotiable, the typical current annual advisory fee for separate accounts and Arrowstreet Private Funds and the minimum separate account size for each equity investment strategy managed as a separate account is set forth in the table below:

As of March 31, 2014		
Investment Strategy*	Advisory Fees	Minimum Account Size for Separate

			Accounts
Global	ACWI	0.80% first \$50 million 0.65% next \$50 million 0.55% thereafter	\$100 Million
Global	World	0.75% first \$50 million 0.60% next \$50 million 0.50% thereafter	\$100 Million
Global	Small Cap	0.90% first \$50 million 0.75% next \$50 million 0.65% thereafter	\$100 Million
Global	World 130/30	The base annual fee is 0.30% on assets under management with an annual performance fee for clients meeting the requirements of Rule 205-3 under the Advisers Act. The performance fee is typically 20%, calculated on cumulative long-term performance over an agreed upon benchmark subject to a high watermark provision.	\$250 Million
Global	Minimum Volatility	0.70% first \$50 million 0.60% next \$50 million 0.50% thereafter	\$100 Million
Global	Minimum Volatility 130/30	The base annual fee is 0.30% on assets under management with an annual performance fee for clients meeting the requirements of Rule 205-3 under the Advisers Act. The performance fee is typically 20%, calculated on cumulative long-term performance over an agreed upon benchmark subject to a high watermark provision.	\$250 Million
Global	Long/Short	The base annual fee ranges from 0.50-1.00% on assets under management, with an annual performance fee for clients meeting the requirements of Rule 205-3 under the Advisers Act. The performance-based fee is typically 20%, calculated on cumulative long-term performance over a cash benchmark subject to a high watermark provision.	\$250 Million
International	ACWI ex US	0.80% first \$50 million 0.65% next \$50 million 0.55% thereafter	\$100 Million
International	EAFE	0.75% first \$50 million 0.60% next \$50 million 0.50% thereafter	\$100 Million
International	EAFE 130/30	The base annual fee is 0.30% on assets under management, with an annual performance fee for clients meeting the requirements of Rule 205-3 under the Advisers Act. The performance fee is	\$250 Million



typically 20%, calculated on cumulative long-term performance over an agreed upon benchmark subject to a high watermark provision.

Emerging	Emerging Markets	0.90% first \$25 million 0.75% next \$25 million 0.65% thereafter	\$100 Million
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\* *Descriptions of our equity investment strategies and the risks related to such strategies are set forth in Item 8.*

Our investment management agreements generally allow either party to terminate the applicable mandate upon prior written notice to the other party. The required notice period for termination varies across agreements.

If a client mandate terminates on a date other than the end of the specified period used to determine the market value of the client account for the purpose of calculating our advisory fee or performance fee, such amounts payable to Arrowstreet will be prorated in accordance with the client's investment management agreement. Similarly, in the event a client mandate is terminated where advisory fees have been paid in advance, a refund will be processed such that fees for the period are prorated in accordance with the client's investment management agreement. For billing purposes, the market value of client accounts will be determined using the records as maintained by our third-party back-office service provider, unless we and the client agree otherwise.

### ***Arrowstreet Private Funds***

Arrowstreet Private Fund advisory fees may be structured as asset-based fees or as performance fees, depending on the particular fund and fund investor.

**QIF.** Arrowstreet invoices investors directly for advisory fees with respect to QIF sub-funds on a quarterly basis, typically in arrears. While advisory fees for the QIF sub-funds are separately negotiated with each investor, the typical current annual advisory fees are based on the investment strategy of the relevant QIF sub-fund and are as set forth above in Item 5 under "Separate Accounts". Such fees are processed and paid separately by the investor to Arrowstreet (outside of the applicable sub-fund). Additional information regarding each QIF sub-fund is set forth below.

As of March 31, 2014			
QIF Sub-Funds	Investment Strategy*		Minimum Investment**
Arrowstreet Global Alpha Extension Fund I	Global	World 130/30	\$10 Million
Arrowstreet EAFE Alpha Extension Fund II	International	EAFE 130/30	\$10 Million
Arrowstreet Emerging Market Fund III	Emerging	Emerging Markets	\$10 Million
Arrowstreet ACWI EX US Fund IV	International	ACWI ex US	\$5 Million
Arrowstreet Global Fund V***	Global	ACWI	\$5 Million
Arrowstreet Global Minimum Volatility Fund VI	Global	Minimum Volatility 130/30	\$10 Million

\* *Descriptions of our equity investment strategies and the risks related to such strategies are set forth in Item 8.*

\*\* *Minimum investment sizes may be changed from time to time on an investor-by-investor basis by the board of directors of the QIF, subject to certain limitations (if any) described in the offering materials applicable to such QIF sub-funds.*

\*\*\* *This pooled investment fund is in the process of winding up its affairs in accordance with its governing agreements.*

**US Group Trust.** Arrowstreet invoices investors directly for advisory fees with respect to each US Group Trust sub-fund on a quarterly basis, typically in arrears. While advisory fees for the US Group Trust sub-funds are separately negotiated with each investor, the typical current annual advisory fees are based on the investment strategy of the relevant US Group Trust sub-fund and are as set forth above in Item 5 under “*Separate Accounts*”. Such fees are processed and paid separately by the investor to Arrowstreet (outside of the applicable sub-fund). Additional information regarding each US Group Trust sub-fund is set forth below.

As of March 31, 2014			
US Group Trust Sub-Funds	Investment Strategy*		Minimum Investment**
Arrowstreet Global Equity – ACWI Fund	Global	ACWI	\$10 Million
Arrowstreet International Equity – ACWI EX US Fund	International	ACWI ex US	\$10 Million
Arrowstreet International Equity - EAFE Fund	International	EAFE	\$10 Million
Arrowstreet Global Equity – Alpha Extension Fund	Global	Global 130/30	\$10 Million
Arrowstreet Global Equity – Small Cap Fund	Global	Small Cap	\$10 Million

\* *Descriptions of our equity investment strategies and risks related to such strategies are set forth in Item 8.*

\*\* *Minimum investment sizes may be changed from time to time on an investor-by-investor basis by Arrowstreet subject to limitations (if any) described in the offering materials applicable to such US Group Trust sub-funds.*

**Long/Short Fund.** The Long/Short Feeder Fund invests substantially all of its assets in the Long/Short Master Fund which is responsible for the payment of advisory fees. Arrowstreet invoices the Long/Short Master Fund directly for advisory fees. Advisory fees accrue monthly and are payable quarterly in arrears. There are three classes of shares of the Long/Short Fund, with advisory fees as follows:

- annual fee of 0.50% – shares generally available for issuance until such time as the net asset value of such class of shares equals or exceeds \$200 million;
- annual fee of 0.80% – shares generally available to an investor to the extent that the net asset value of the shares (across all classes) held by such investor exceeds \$100 million at the time of investment; and

- annual fee of 1.00% – shares will be issued to an investor to the extent that the net asset value of the shares (across all classes) held by such investor does not exceed \$100 million at the time of investment.

In addition, all share classes pay a performance-based fee of 20%, calculated on cumulative long-term performance over a cash benchmark subject to a high watermark provision. The advisory fee payable by investors in the Long/Short Fund is not negotiable. Additional information regarding the Long/Short Feeder Fund is set forth below.

As of March 31, 2014			
Fund	Investment Strategy*		Minimum Investment **
Arrowstreet Capital Global Equity Long/Short Fund (Feeder) Limited	Global	ACWI	\$5 Million

\* *Descriptions of our equity strategies and risks related to such strategies are set forth in Item 8.*

\*\* *Minimum investment sizes may be changed from time to time on an investor-by-investor basis by Arrowstreet subject to limitations (if any) described in the offering materials applicable to such Long/Short Fund.*

CCF. Arrowstreet invoices investors directly for advisory fees with respect to CCF sub-funds on a quarterly basis, typically in arrears. While advisory fees for the CCF sub-funds are separately negotiated with each investor, the typical current annual advisory fees are based on the investment strategy of the relevant CCF sub-fund and are as set forth above in Item 5 under “*Separate Accounts*”. Such fees are processed and paid separately by the investor to Arrowstreet (outside of the applicable CCF sub-fund). Additional information regarding each CCF sub-fund is set forth below.

As of March 31, 2014			
CCF Sub-Funds	Investment Strategy*		Minimum Investment **
Arrowstreet Global Equity CCF	Global	ACWI	\$10 Million
Arrowstreet Global Equity (GBP) CCF	Global	ACWI	£10 Million
Arrowstreet Global Small Cap Equity CCF	Global	Small Cap	\$10 Million
Arrowstreet Global Minimum Volatility Equity CCF	Global	Minimum Volatility	\$10 Million

\* *Descriptions of our equity investment strategies and risks related to such strategies are set forth in Item 8.*

\*\* *Minimum investment sizes may be changed from time to time on an investor-by-investor basis by Arrowstreet subject to limitations (if any) described in the offering materials applicable to such CCF sub-funds.*

**Additional Information Regarding Arrowstreet Private Funds.** Additional information regarding Arrowstreet Private Funds (and the fees associated with investing in these sub-funds) is set forth in the offering documents of the applicable Arrowstreet Private Funds. Copies of the offering documents may be obtained by select, qualified investors upon written request to Arrowstreet. Prospective investors are

required to demonstrate their eligibility to invest in the applicable Arrowstreet Private Funds prior to receiving such offering documents.

### ***Other Fee Arrangements***

Arrowstreet may, from time to time, negotiate special fee arrangements with clients, including performance-based fee arrangements meeting the requirements of Rule 205-3 under the Advisers Act. Please refer to Item 6 below for additional information regarding performance fees.

### ***Third Party Fees and Expenses***

In addition to advisory fees paid to Arrowstreet, clients pay other fees, costs and expenses in connection with the management of their accounts. Clients are generally responsible for all fees, costs and expenses external to Arrowstreet relating to the management of the applicable client account. Such fees, costs and expenses include brokerage commissions (including with respect to foreign exchange transactions) incurred on behalf of the client by Arrowstreet, as agent (please see Item 12 for more information relating to our brokerage practices). Fees, costs and expenses may also include amounts incurred directly by the clients, such as:

- custody fees;
- administrator fees;
- transaction fees and other related costs;
- transfer fees and other related transaction costs;
- clearing house fees; and
- taxes (including stamp, duty and transfer taxes).

In addition, client accounts will be charged advisory fees and other expenses by third party pooled investment funds (such as mutual funds, closed-end funds and exchange traded funds) in which the client account is invested. These fees and expenses are described in the disclosure documents of such pooled investment funds. Investments in these third party pooled funds are only made if allowable under the applicable client mandate or the offering documents of the applicable Arrowstreet Private Fund. As noted above, Arrowstreet does not invest the assets of separately managed client accounts in Arrowstreet Private Funds and Arrowstreet does not invest the assets of client accounts in any other pooled investment fund for which we serve as investment adviser or sub-adviser. Clients may choose to invest directly for their own account in one or more Arrowstreet Private Funds or other pooled investment funds advised by us if they choose to do so.

Investors in the Arrowstreet Private Funds will indirectly incur many of the same fees and expenses as a separately managed client account and will also be subject to certain additional fees, which might include audit fees, legal fees, other fund administration fees, subscription and redemption fees, as well as private placement or other fees paid to local regulators (e.g., with respect to investors from certain Canadian provinces). Please refer to the offering documents of the applicable Arrowstreet Private Funds for additional information.

### ***Additional Compensation***

Arrowstreet and its personnel neither seek nor accept third party compensation, including sales charges and service fees, from any person for the sale of securities or other investment products.

### **Item 6 – Performance-Based Fees and Side-By-Side Management**

Arrowstreet's advisory fees are typically calculated as a percentage of assets as more fully described above in Item 5. Arrowstreet may, from time to time, enter into performance-based fee arrangements with qualified clients meeting the requirements of Rule 205-3 under the Advisers Act. Such arrangements are negotiated on a case-by-case basis with the particular client. While such arrangements will vary from client to client, they typically provide for a base fee based on the market value of the applicable client account at specified periods, plus a performance fee based on the portfolio return over an agreed upon trailing period which may be relative to a designated benchmark or customized index return.

Performance-based fees paid to investment advisers may be higher than the asset-based fees. Accordingly, performance-based fee arrangements create an incentive for Arrowstreet to recommend investments that are riskier or more speculative than those which would be recommended under a different fee arrangement. Such fee arrangements also create an incentive to favor higher fee paying accounts over other accounts in the allocation of investment opportunities. However, Arrowstreet's investment process and operational procedures are designed and implemented, in part, to ensure that all clients are treated in a fair and equitable manner over time, including with respect to the allocation of investment opportunities among clients. For more information about our investment process, please see Item 8.

### **Item 7 – Types of Clients**

Arrowstreet provides investment advisory services to a global institutional client base located in the United States, Europe and the Asia-Pacific region, including Australia. Our clients consist of a broad range of institutional clients, including corporate pension and profit-sharing plans, charitable institutions, foundations, endowments, state and municipal government entities, U.S. registered mutual funds, U.S. private investment funds, non-U.S. private funds and registered funds (such as UCITS and non-UCITS), insurance companies and other U.S. and non-U.S. institutions. Please refer to Item 5 for information relating to minimum investment amounts for purposes of establishing a separately managed account or for investing in the Arrowstreet Private Funds.

### **Item 8 – Methods of Analysis, Investment Strategies and Risk of Loss**

#### ***Investment Process and Strategies***

We offer institutional investors a select range of equity investment strategies that are broadly categorized as global equity/international equity, emerging markets equity and long/short equity. Investing in international or global equities involves a risk of loss of capital as markets can be volatile and can go down. Risks relating to our equity investment strategies are more fully described below in this Item 8.

Our investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into our proprietary return, risk and transaction cost models. Our investment approach involves creating and investing in diversified equity portfolios. We utilize a structured investment process that attempts to add value relative to a client specific benchmark. This involves identifying opportunities across companies, sectors and countries by evaluating a diverse set of fundamental and

market-based predictive factors. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models.

Arrowstreet uses the same general investment process for each of its equity strategies, varying the characteristics according to client benchmark preferences, restrictions, investment objectives and investment guidelines. Arrowstreet manages diversified equity portfolios, rather than recommending any particular type of security. We provide the following equity investment strategies to clients through separate accounts and/or the Arrowstreet Private Funds:

- **Global Equity** – a core global equity strategy which seeks to outperform benchmarks such as the MSCI World Index, MSCI All Country World Index or other diversified global equity index.
- **International Equity** - a core international equity strategy which seeks to outperform benchmarks such as the MSCI EAFE Index, MSCI All Country World ex US Index or other diversified international equity index.
- **Emerging Markets** - a core emerging market equity strategy which seeks to outperform benchmarks such as the MSCI Emerging Market Index or other diversified emerging market equity index.
- **Global Minimum Volatility** – a global equity strategy which seeks to both provide lower systematic risk than a capitalization weighted equity benchmark and also to outperform minimum volatility global equity benchmarks, such as the MSCI World Minimum Volatility Index, which are constructed with the objective of minimizing risk.
- **Global Small Cap** - a core small cap global equity strategy which seeks to outperform benchmarks such as the MSCI All Country World Small Cap Index or other diversified global small cap equity index.
- **Global 130/30** – a global strategy which seeks to outperform global benchmarks more efficiently than standard long-only portfolios by relaxing the short-sale constraint to certain limits (offered via pooled investment fund option only See Item 5 “Arrowstreet Private Funds”).
- **International 130/30** – an international strategy which seeks to outperform international benchmarks more efficiently than standard long-only portfolios by relaxing the short-sale constraint to certain limits (offered via pooled investment fund option only See Item 5 “Arrowstreet Private Funds”).
- **Global Minimum Volatility 130/30** - a global equity strategy which seeks to (i) provide lower systematic risk than a capitalization weighted equity benchmark; (ii) outperform minimum volatility global equity benchmarks, such as the MSCI World Minimum Volatility Index, and (iii) outperform global benchmarks more efficiently than standard long-only portfolios by relaxing the short-sale constraint to certain limits.
- **Global Long/Short** – a global long/short equity strategy which seeks to produce absolute returns and outperform short term cash benchmarks (e.g. Citigroup 3-Month US Treasury Bills Index).

In connection with the implementation of the above-referenced equity investment strategies, and depending on the particular client mandate, we may also offer advice on forward foreign currency

contracts, options on foreign currency, futures, interest rates, currency, equity swap transactions, real estate investment trusts and repurchase agreements. We seek to effect transactions in derivatives pursuant to established legal frameworks, such as the International Swaps and Derivatives Association form (ISDA Master Agreement) and the International Foreign Exchange Master Agreement form (IFEMA) or, where applicable, negotiated agreements with futures commission merchants.

As a global asset manager we generally implement our trading programs through regularly scheduled trading sessions that involve trading client accounts across multiple time zones, and in markets with varying trade settlement cycles. As a result, the timing of implementation of such trading programs over multiple days and other operational considerations may cause a client's account to experience short term economic leverage and/or overdrafts.

***There can be no assurance that the objectives associated with any strategies described above will be met. At any time, Arrowstreet may add strategies, remove strategies, or modify any of the strategies it employs and this includes any of the strategies discussed above.***

### ***Risks Related to Our Investment Strategies***

All Arrowstreet equity investment strategies involve the risks of investing in equities and currencies globally. In addition, our global long/short and global/international 130/30 strategies involve the risk of shorting equities and leverage. Clients and prospective clients should be aware of, among others, the following material risks associated with our strategies.

#### **Risks Generally Applicable to Equity Strategies**

***Investment Risk.*** Arrowstreet's investment approach (which is more fully described above) involves establishing a diversified equity portfolio for each client, taking into consideration the underlying mandate terms, including any investment guidelines provided by the client. There can be no assurance that a client's specific investment objectives will be achieved or that income or profits will be guaranteed. Arrowstreet's past performance is not indicative of future results.

***Modeling Risk.*** Arrowstreet uses proprietary quantitative models in its investment process as described previously. While Arrowstreet expects these models to perform as expected, deviation between model predictions and the actual events can result in either no advantage or in results opposite to those desired by Arrowstreet and our clients. In particular, these models may draw from historical data that may not predict future returns, volatilities, correlations or market performance adequately. In addition, market conditions may be such that they are outside of the confidence level employed by the models. There can be no assurances that the models behave as expected. An error in the coding of data or formulas within the models may be magnified by the model and may be difficult to detect. Unexpected market turbulence or unanticipated extraneous events may also cause the actual results to fall outside of the range predicted from the models' forecasts.

***Non-diversification Risk.*** Non-diversified portfolios are exposed to additional market risk. We can invest a relatively high percentage of client assets in a limited number of issuers or concentrate our investment in a particular sector or country. This will likely result in a client's account with these characteristics being more susceptible to any single political, regulatory or economic occurrence and to the financial condition of individual issuers in which the account invests. Any of these could have a negative effect on the performance and management of a client's account.

*Risks of Investments in Non-U.S. Securities.* We invest in securities of non-U.S. issuers, securities traded principally in securities markets outside the U.S. and/or securities denominated in non-U.S. currencies. Such investments involve certain special risks due to non-U.S. economic, political and legal developments, including favorable or unfavorable changes in currency exchange rates, exchange control regulations (including currency blockage), expropriation of assets or nationalization, imposition of withholding taxes on dividend or interest payments, imposition of required holding periods, and possible difficulty in obtaining and enforcing judgments against foreign entities. Furthermore, non-U.S. issuers are subject to different, often less comprehensive, accounting, reporting, and disclosure requirements than U.S. issuers. The securities of some non-U.S. companies and non-U.S. securities markets are less liquid and at times more volatile than securities of comparable U.S. companies and U.S. securities markets. Non-U.S. brokerage commissions and other fees are also generally higher than in the United States. All of these risks and costs will be exacerbated to the extent we make investments in securities issued by companies in emerging and frontier market countries. Risks relating to investing in emerging and frontier markets are more fully discussed below.

*Emerging Market Risks.* Depending on the particular client mandate, we invest in emerging market countries. These markets are often less liquid and levels of volatility in price movements are often greater than those experienced in more developed economies and markets. In addition, reporting standards and market practices may not provide the same degree of information as would generally apply internationally and therefore may increase risk.

The legal infrastructure and accounting, auditing and reporting standards in emerging markets may not provide the same degree of shareholder protection or information to investors as would generally apply internationally in more developed markets. In particular, valuation of assets, depreciation, exchange differences, deferred taxation, contingent liabilities and consolidation may be treated differently from international accounting standards.

The value of the assets of a client account could be affected by uncertainties, such as political developments, changes in government policies, taxation, currency repatriation and restrictions on foreign investment in some of the countries in which we invest.

We invest in emerging markets where custodial and/or settlement systems are not fully developed. Further, the assets of a client account which are traded in such markets and which have been entrusted to sub-custodians, in circumstances where the use of such sub-custodians is necessary, will be exposed to risk in circumstances whereby the applicable client custodian will have no liability.

*Frontier Markets Risks.* Depending on the particular client mandate, we invest in securities of companies in frontier market countries. Frontier market countries often have smaller economies and/or less developed capital markets than traditional emerging market countries, and as a result the risks of investing in emerging market countries may be magnified in frontier market countries. For instance, the political and economic structures in frontier market countries may be in their infancy and developing rapidly, or may experience significant upheaval, causing a high risk of instability. Trade barriers and other protectionist measures may also have significant adverse effects on the economies of frontier countries as such economies may be largely supported by international trade. Furthermore, frontier market economies may be controlled by a few sectors which could lead to related investments being concentrated into a few sectors.

The political climate in such countries may be highly unstable and include the risk of significant government changes, policy changes such as government appropriation or risks of terrorism.



Investments in frontier markets may be subject to restrictions on foreign investment, and possible repatriation of investment income and capital. In addition, foreign investors may be required to register the proceeds of sales, and future economic or political crises could lead to price controls, forced mergers, expropriation or confiscatory taxation, seizure, nationalization or the creation of government monopolies. While companies in certain frontier markets may be subject to limitations on their business relationships under that country's law, these laws may not be consistent with certain political and security concerns of the U.S. or other developed markets. Investments in such companies may subject a client account to the risk that these companies' reputation and price in the market will be adversely affected.

In addition, the small size, limited trading volume and relative inexperience of the securities markets in these countries may make investments in such countries less liquid and more volatile than investments in more developed countries. Investments in frontier markets may be regarded as highly speculative and even listed securities could be illiquid. Frontier markets may also have different clearance and settlement procedures, which may be unable to keep pace with the volume of securities transactions or otherwise make it difficult to engage in such transactions. Settlement problems may cause a client account to miss attractive investment opportunities, hold a portion of its assets in cash pending investment, or be delayed in disposing of a portfolio security.

Additional risks of investing in frontier markets may include exposure to less developed legal systems than in more developed countries and differences in auditing and financial reporting standards, which may result in unavailability of material information about issuers. Moreover, the currencies of frontier market countries may experience significant declines against the U.S. dollar or other developed market currencies, and devaluation may occur subsequent to investments in these currencies by a client account. Inflation and rapid fluctuations in inflation rates have had, and may continue to have, negative effects on the economies and securities markets of certain frontier market countries.

*Currency Risk.* We invest in assets that are denominated in a currency other than the applicable base currency of the client account. Accordingly, the value of the assets in the client account will be affected favorably or unfavorably by fluctuations in the rates of the different currencies. Depending on the particular client mandate, we engage in currency transactions either on a spot (i.e., cash) basis at the rate prevailing in the currency exchange market, or by entering into forward foreign currency exchange contracts to purchase or sell currencies as agent for our client. Certain accounts allow for enhanced currency management (referred to as an "active strategy") where the forward foreign currency exchange contracts are generally used to invest in currencies in the portfolio's benchmark and opportunistically in currencies outside the portfolio's benchmark to manage the currency exposure of the portfolio relative to the benchmark within certain bounds and may result in net short currency exposures. For example, the currency exposure of the portfolio may be managed using forward currency exchange contracts to be within +/-15% of the benchmark currency exposures on a currency by currency basis. Other accounts may only allow for forward foreign currency exchange contracts to be used to manage the currency exposure of the portfolio such that the portfolio is fully hedged relative to the benchmark (referred to as a "passive strategy"). In passive strategies, the offset from any unhedged equity positions lies in the US dollar currency exposure. Forward foreign currency exchange contracts are performed against the US dollar and may be entered into in anticipation of equity trades to be executed in the near future as part of the portfolio's trading program. Currency exposures in certain markets are not hedged due to liquidity, transaction costs or other prohibitive conditions. The particular currency to which a security is exposed is determined using Arrowstreet's proprietary models.

In entering a forward foreign currency exchange currency contract, our client is dependent upon the creditworthiness and good faith of the counterparty. Spot and forward contracts involve the risk that anticipated currency movements will not be accurately predicted, which may result in unlimited losses to

our client. Using forward foreign currency exchange contracts does not eliminate fluctuations in the underlying prices of the securities. Forward foreign currency exchange contracts simply establish a rate of exchange that can be achieved at some future point in time. Positions in underlying securities, coupled with an unanticipated increase in the value of the relevant currency, could expose a portfolio even if fully or partially hedged relative to its benchmark to unlimited losses.

*Counterparty, Execution and Settlement Risks.* Clients will be exposed to the credit risk of parties with whom they trade and will also bear the risk of settlement default by any such counterparty. In addition, market practices in relation to the settlement of transactions and the custody of assets could result in increased risks.

*Substantial Redemptions.* If there are substantial redemptions by a client with respect to an account within a limited period of time, it may be difficult for us to provide sufficient funds to meet such redemption requests without liquidating positions prematurely at an inappropriate time or on unfavorable terms.

*Taxes.* Arrowstreet's investment process and client account management procedures do not consider the tax attributes or characteristics of our clients or of the underlying portfolio of assets in the clients' accounts. For example, a client account generally will be managed without regard to any state, federal or provincial tax implications to clients, including withholding tax, capital gains taxes, cross-border taxes, transfer, stamp or other duty taxes. Clients should consult their own tax advisers to understand the tax consequences of establishing a client account with Arrowstreet.

*Risks Associated with Investment in Other Collective Investment Schemes and Pooled Investment Funds.* Depending on the particular client mandate, we invest client accounts in one or more third party collective investment schemes or other pooled funds. The level of protection such collective investment scheme provides will vary by jurisdiction. As a shareholder of a collective investment scheme or pooled fund, a client account will bear its pro rata portion of the expenses of such collective investment scheme or vehicle, including management and/or other fees. These fees will be in addition to the advisory fees paid to Arrowstreet and other fees and expenses which the client account bears directly in its account.

*Restricted and Illiquid Securities.* We may invest in securities that are, or may in the future become, restricted or illiquid. Any securities that are thinly traded or whose resale is restricted can be difficult to sell at a desired time and price. Some of these securities may be new and complex and traded only among institutions. The markets for these securities are still developing and sometimes do not function as efficiently as established markets.

*Risks Associated with Financial Derivative Instruments.* Financial derivative instruments involve risks different from, and in certain cases greater than, the risks presented by more traditional investments. Depending on the particular client mandate, we enter transactions in over-the-counter (OTC) markets that expose a client account to the credit of its counterparties and their ability to satisfy the terms of such contracts. Where a particular client account employs derivative contracts, such account will be exposed to the risk that the counterparty may default on its obligations to perform under the relevant contract. In the event of a bankruptcy or insolvency of a counterparty, the client account could experience delays in liquidating the position and may incur significant losses. There is also a possibility that ongoing derivative transactions will be terminated unexpectedly as a result of events outside of our or our client's control, for instance, bankruptcy, supervening illegality or a change in the tax or accounting laws relative to those transactions at the time the agreement was originated.

Since many financial derivative instruments have a leverage component, adverse changes in the value or level of the underlying asset, rate or index can result in a loss substantially greater than the amount invested in the derivative itself. Certain financial derivative instruments have the potential for unlimited loss regardless of the size of the initial investment. If there is a default by the other party to any such transaction, there will be contractual remedies; however, exercising such contractual rights could involve delays or costs which could result in the value of the total assets of the related portfolio being less than if the transaction had not been entered into. Derivatives do not always perfectly or even highly correlate or track the value of the securities, rates or indices they are designed to track. Consequently, our use of derivative techniques for a particular client account may not always be an effective means of, and sometimes could be counter-productive to, the client's investment objective. An adverse price movement in a derivative position could require cash payments of variation margin by the particular client account that might in turn require, if there is insufficient cash available in the portfolio, the sale of the client account's investments under disadvantageous conditions. Also, there are legal risks involved in using financial derivative instruments which could result in loss due to the unexpected application of a law or regulation or because contracts are not legally enforceable or documented correctly.

Other risks in using derivatives include the risk of mispricing or improper valuation of derivatives. Many derivatives, in particular OTC derivatives, are complex and often valued subjectively. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a portfolio.

*Futures, Forwards and Options.* Depending on the particular client mandate, we may from time to time utilize both exchange-traded and over-the-counter futures, forwards and options as part of our investment policy. These instruments are highly volatile, involve certain special risks and expose investors to a high risk of loss. The low initial margin deposits normally required to establish a futures position permit a high degree of leverage. As a result, a relatively small movement in the price of a futures contract could result in a profit or a loss which is high in proportion to the amount of funds actually placed as initial margin and may result in unquantifiable further losses exceeding any margin deposited. Further, when used for hedging purposes there may be an imperfect correlation between these instruments and the investments or market sectors being hedged. Transactions in over-the counter derivatives involve additional risk as there is no exchange or market on which to close out an open position. It may be impossible to liquidate an existing position, to assess or value a position or to assess the exposure to risk.

*Risks Associated with Participation Notes.* Depending on the particular client mandate, we will from time to time utilize participation notes to gain exposure to issuers in certain countries including frontier market countries. Participation notes are a type of equity-linked derivative that generally are traded over-the-counter and constitute general unsecured contractual obligations of the banks or broker dealers that issue them. Generally, banks and broker-dealers associated with non-U.S.-based brokerage firms buy securities listed on certain non-U.S. exchanges and then issue participation notes that are designed to replicate the performance of the securities. The return on a participation note that is linked to a particular underlying security generally is increased to the extent of any dividends paid in connection with the underlying security. However, the performance results of participation notes will not exactly replicate the performance of the securities that the notes seek to replicate due to transaction costs and other expenses.

Participation notes present similar risks to investing directly in the underlying security; however, participation notes also entail many of the same risks as other over-the-counter derivatives, including the risk that the counterparty or issuer of the participation note may not be able to fulfill its contractual obligations and the potential for delays in liquidating the position in circumstances involving the bankruptcy or insolvency of a counterparty, which may result in an account incurring significant losses as a result. The risk that a client account loses its investments due to the insolvency of a counterparty may

be amplified to the extent that a client account purchases participation notes issued by as few as one issuer.

In addition, the holder of a participation note typically does not receive voting or other rights as it would if it directly owned the underlying security. Additionally, there is no guarantee that a liquid market will exist generally for a participation note or that a counterparty will be willing to repurchase such instrument when a client account wishes to sell it. For more information, please see “Risks Associated with Financial Derivative Instruments” above.

*Risks Associated with Depositary Receipts.* We may purchase sponsored or unsponsored American Depositary Receipts, European Depositary Receipts and Global Depositary Receipts (collectively “Depositary Receipts”) typically issued by a bank or trust company which evidence ownership of underlying securities issued by a corporation. Generally, Depositary Receipts in registered form are designed for use in the U.S. securities market and Depositary Receipts in bearer form are designed for use in securities markets outside the U.S. Depositary Receipts may not necessarily be denominated in the same currency as the underlying securities into which they may be converted. Depositary Receipts may be issued pursuant to sponsored or unsponsored programs. In sponsored programs, an issuer has made arrangements to have its securities trade in the form of Depositary Receipts. In unsponsored programs, the issuer may not be directly involved in the creation of the program. Although regulatory requirements with respect to sponsored and unsponsored programs are generally similar, in some cases it may be easier to obtain financial information from an issuer that has participated in the creation of a sponsored program. Accordingly, there may be less information available regarding issuers of securities’ underlying unsponsored programs and there may not be a correlation between such information and the market value of the Depositary Receipts.

*Highly Volatile Markets.* The prices of derivative instruments are highly volatile. Price movements of forward contracts, futures contracts and other derivative contracts in which a client account is invested are influenced by, among other things, interest rates, changing supply and demand relationships, trade, fiscal, monetary and exchange control programs and policies of governments, and national and international political and economic events and policies. In addition, governments from time to time intervene, directly and by regulation, in certain markets, particularly those markets in currencies and interest rate related futures and options. Such intervention often is intended to directly influence prices and may, together with other factors, cause those markets to move rapidly in the same direction because of, among other things, interest rate fluctuations.

*Small Sized Company Risk.* Investments in companies with relatively small market capitalizations generally involve greater risk and price volatility than investments in larger, more established companies because small capitalization companies tend to have younger and more limited product lines, markets and financial resources and may be dependent on a smaller management group than large capitalization companies. In addition, the equity securities of such companies are typically less liquid than larger capitalization companies. As a result, certain securities may be difficult or impossible to sell at the time and the price desired. A client account may have to lower the price, sell other securities instead or forego an investment opportunity. Any of these could have a negative effect on the management or performance of a client account investing in small capitalization companies.

*Hedging Transactions Risk.* Depending on the particular mandate, we may not be required to hedge portfolio positions or we may not anticipate a particular risk so as to hedge against it. Furthermore, we may utilize a variety of financial instruments (including derivatives), both for investment return enhancement purposes and for risk control purposes in order to:

- protect against possible changes in the market value of an investment portfolio resulting from fluctuations in the securities markets and changes in interest rates;
- protect the unrealized gains in the value of an investment portfolio;
- facilitate the sale of any such investments;
- enhance or preserve returns, spreads or gains on any investment in an investment portfolio;
- hedge the interest rate or currency exchange rate on any of an investment portfolio's liabilities or assets;
- protect against any increase in the price of any securities we anticipate purchasing at a later date; and/or
- for any other reason that we deem appropriate.

The success of a hedging strategy employed for a particular mandate is subject to our ability to correctly assess the degree of correlation between the performance of the instruments used in the hedging strategy and the performance of the investments in the portfolios being hedged. Since the characteristics of many securities change as markets change or time passes, the success of the instances when we may hedge portfolio positions is also subject to our ability to continually recalculate, readjust and execute hedges in an efficient and timely manner. While we may enter into certain hedging transactions to seek to reduce risk, such transactions may result in a poorer overall performance than if we had not engaged in any such hedging transactions. For a variety of reasons, we may not seek to establish a perfect correlation between such hedging instruments and the portfolio holdings being hedged. Such imperfect correlation may prevent an account from achieving the intended hedge or expose an account to risk of loss. The successful utilization of hedging and risk management transactions requires skills complementary to those needed in the selection of an account's portfolio holdings.

*Portfolio Turnover Risk.* Depending on the particular client mandate, we may not place any limit on the rate of portfolio turnover, and portfolio securities may be sold without regard to the time they have been held when, in our opinion, investment considerations warrant such action. A high rate of portfolio turnover involves correspondingly greater expenses than a lower rate, may act to reduce investment gains, or create a loss for clients and may result in increased tax costs for clients depending on the tax provisions applicable to such clients. The after-tax impact of portfolio turnover is not considered when making investment decisions for a client.

*Performance Fee Risk.* Depending on the particular client mandate, we (or an affiliate) may receive a performance fee that is calculated with regard to unrealized gains as well as realized gains. Therefore, a performance fee may be paid on unrealized gains which may subsequently never be realized by the client account. A performance fee may provide an incentive for us to make investments for a client which are more risky than would be the case in the absence of compensation based solely on realized gains.

The computations required to be made for purposes of computing a performance fee may be made separately with respect to separate contributions to or redemptions from a client account, to reflect appropriately the different times at which contributions or redemptions were made and the net asset value of the client account at such times. As a result, a performance fee may be paid with respect to a specific contribution from a client even if no performance fee would have been paid had all of such client's contributions been aggregated.

*Misconduct of Employees and of Third Party Service Providers.* Misconduct by our employees or by a third party service provider that we utilize could cause significant losses to a client account. Employee misconduct may include binding a client account to transactions that present unacceptable risks and unauthorized activities or concealing unsuccessful activities (which, in either case, may result in unknown and unmanaged risks or losses). Losses could also result from actions by a third party service provider, including, without limitation, failing to record transactions or improperly performing other administrative responsibilities. In addition, employees and third party service providers may improperly use or disclose confidential information, which could result in litigation or serious financial harm. Although we have adopted measures reasonably designed to prevent and detect employee misconduct and to select reliable third party providers, such measures may not be effective in all cases.

*Systems Risks.* We rely on computer programs to evaluate certain securities and other investments, to monitor each client's portfolio, to trade, clear and settle securities transactions, and to generate asset, risk management and other reports that are utilized in the oversight of each client's activities. In addition, certain of our operations will interface with or depend on systems operated by third parties, which may not be possible to monitor. Any or all of these programs or systems may be subject to certain defects, failures or interruptions, including, but not limited to, those caused by computer 'worms,' viruses and power failures. Such failures could cause settlement of trades to fail, lead to inaccurate accounting, recording or processing of trades, and cause inaccurate reports, which may affect the ability to monitor investment portfolio and risk. Any such defect or failure could cause a client account to suffer financial loss, the disruption of business, liability to third parties, regulatory intervention or reputational damage.

#### Additional Risks Applicable to 130/30 and Long/Short Equity Strategies

*Short Sales.* We effect short sales in our client accounts for certain client mandates. Our use of short sales involves distinct investment risks and transaction costs. A client's potential loss from an uncovered short position in an equity security is unlimited. We may not be able to close out a short position at any particular time or at the desired price. The use of short sales increases the market exposure of a client's account and allows the client to leverage its portfolio. Such leverage will exaggerate the effect of any increase or decrease in the value of the account's assets and, therefore, increase the volatility of the client's account. The transaction costs associated with short sales may exceed the income received through short sales. There can be no assurance that we will be able to leverage investments through short sales effectively.

*Leverage.* A client mandate that utilizes short sales will be leveraged. The use of leverage creates special risks and may significantly increase a client's investment risk. Leverage creates an opportunity for greater yield and total return but, at the same time, will increase a client's exposure to capital risk and interest costs. Any investment income and gains earned on investments made through the use of leverage that are in excess of the interest costs associated with such leverage can cause the value of a client's account to increase more rapidly than would otherwise be the case. Conversely, where the associated interest costs are greater than such income and gains, the value of a client's account can decrease more rapidly than would otherwise be the case.

#### ***Risks Associated with the Arrowstreet Private Funds***

The risks identified above are substantially the same as those applicable to an investment in the Arrowstreet Private Funds, depending on the specific fund chosen for investment. However, additional risks may be relevant and investors who wish to invest in the Arrowstreet Private Funds should carefully review the offering documents for the applicable fund, including the risks relating to an investment therein as described in such materials.

## **Item 9 – Disciplinary Information**

There are no legal or disciplinary events that are material to a client's or prospective client's evaluation of our investment advisory business or the integrity of our management.

## **Item 10 – Other Financial Industry Activities and Affiliations**

### ***Broker, Dealer, Commodity Registrations***

Arrowstreet is registered as a commodity trading advisor, and as a commodity pool operator with the U.S. Commodity Futures Trading Commission (CFTC), and has management personnel that are registered as “approved principals,” “associated persons” and/or “swap associated persons” of a commodity trading advisor and a commodity pool operator with the CFTC. Arrowstreet is also an approved “swap firm” with the National Futures Association (NFA).

Neither Arrowstreet nor any of its personnel are registered (or have a registration application pending) as:

- a broker-dealer;
- a registered representative of a broker dealer;
- a futures commission merchant; or
- an associated person of a futures commission merchant.

### ***Other Material Relationships***

Arrowstreet serves as investment adviser to the Arrowstreet Private Funds. Our Executive Chairman, Mr. Clarke, serves as a director of each of the QIF, ACIL (which serves as the UCITS management company for the CCF) and the Long/Short Feeder Fund and the Long/Short Master Fund. Mr. Rathjens, our Chief Investment Officer, serves as an alternate director for each of the QIF and ACIL, and two directors unaffiliated with Arrowstreet also serve as directors of each of the QIF and ACIL. Our Chief Executive Officer, Mr. Ryan, also serves as a director of the Long/Short Feeder Fund and the Long/Short Master Fund, along with Mr. Clarke and a director unaffiliated with Arrowstreet. Select, qualified investors may, upon written request to Arrowstreet, obtain copies of the offering documents relating to the Arrowstreet Private Funds. Prospective investors are required to demonstrate their eligibility to invest in the applicable Arrowstreet Private Fund prior to receiving such offering documents.

Please refer to Item 4 for information relating to our affiliated Irish management company and our affiliated marketing offices located in the U.K. and Australia.

## **Item 11 – Code of Ethics, Participation or Interest in Client Transactions and Personal Trading**

### ***Overview of Code of Ethics***

Arrowstreet maintains a code of ethics that establishes fundamental principles of conduct and professionalism expected by Arrowstreet personnel in discharging their duties. The code requires that Arrowstreet personnel must at all times act in good faith in accordance with the law and place client interests first, avoiding actual and apparent conflicts of interest between personal and client matters.

Arrowstreet seeks to foster a reputation of integrity and professionalism. The confidence and trust placed in Arrowstreet by clients must be valued and protected by all personnel. Upon joining our firm, Arrowstreet personnel must acknowledge they have read and understand our code of ethics. Arrowstreet personnel must also affirm their compliance with the code of ethics on a quarterly basis.

The code is designed to deter inappropriate behavior and promote honest and ethical conduct, including full, fair and accurate disclosure, compliance with applicable rules and regulations and reporting of code violations. Specifically, the code addresses, among other things:

- nondisclosure of confidential information (including client information);
- compliance with applicable law and regulations;
- prohibition on insider trading;
- prohibition on market manipulation
- explanation of fiduciary obligations;
- explanation of conflicts of interest and board of director conflict of interest principles
- additional responsibilities for investment personnel including compliance with the CFA Institute's Code of Ethics;
- restrictions and prohibitions relating to the giving and receiving of gifts and other inducements;
- duty to report certain outside business activities;
- restrictions on personal security trading and preclearance procedures;
- duty to report violations of the code; and
- record keeping.

A copy of our code of ethics is available to any client or prospective client upon request.

#### ***Purchase of Securities for Own Account; Pre-Clearance***

Arrowstreet does not purchase or sell securities for its own account that it also recommends to, or purchases for, its clients, other than investments in Arrowstreet Private Funds. Arrowstreet invested a nominal amount in the Long/Short Master Fund.

Arrowstreet personnel and its affiliates may enter into transactions for their own account that are also recommended to, or purchased for, Arrowstreet clients, subject to the personal trading rules set forth in our code of ethics, including strict pre-clearance procedures and reporting requirements.

As a general rule, Arrowstreet personnel (other than non-executive directors of our parent company and its affiliates) must obtain written pre-clearance from the Chief Compliance Officer prior to effecting any transaction in a security (defined broadly in our code of ethics). Pre-clearance for a transaction in a security is granted in certain limited cases in accordance with the pre-clearance rules set forth in our code of ethics. The Chief Compliance Officer may deny or impose conditions on pre-clearance of any proposed trade if such trade would be, or would appear to be, inconsistent with applicable legal or fiduciary obligations.



Arrowstreet personnel are required to report all non-exempt personal securities transactions to the Chief Compliance Officer on a quarterly basis. Exempt transactions include:

- gifts of a security (not otherwise prohibited by the code of ethics);
- purchases and sales of instruments that are not “securities” under our code of ethics (e.g., U.S. government securities, certificates of deposit, money market fund shares, shares in registered open-ended mutual funds for which we do not serve as investment adviser or sub-adviser);
- purchases and sales in an account over which such person has no direct or indirect influence or control;
- purchases and sales of securities effected pursuant to an automatic investment plan that has been preapproved by our Chief Compliance Officer; and
- purchases of securities upon the exercise of rights by an issuer that are issued pro-rata to all holders of a class of its securities, and sale of such rights so acquired.

Arrowstreet provides investment advisory services to many institutional clients. We give advice and take action with respect to certain client accounts which might differ from the advice made or recommended or actions taken with respect to other client accounts even though the investment objectives of such client accounts may be the same or similar. We are not obligated to purchase or sell, or to recommend for purchase or sale, for a client account any security which Arrowstreet or its affiliates may purchase or sell for its own accounts or for the account of any other client.

### ***Aggregation of Trades; Trade Allocation***

Arrowstreet typically aggregates (block) trades for its clients (including the Arrowstreet Private Funds). Please refer to Item 12 for additional information about our trade aggregation procedures.

## **Item 12 – Brokerage Practices**

### ***Broker and Counterparty Selection and Best Execution***

Arrowstreet selects brokers, dealers and counterparties in accordance with the terms of our best execution policy, as may be in effect from time to time. Arrowstreet’s best execution policy acknowledges Arrowstreet’s fiduciary responsibility to take prudent steps to ensure that best execution is obtained on behalf of its clients in connection with the purchase and sale of securities for client accounts. Arrowstreet’s determination of best execution is not based necessarily on lowest commission rates (or other direct costs) but more broadly on whether the transactions as a whole represent the best qualitative and quantitative execution for the account.

### **Securities**

***Broker-Dealer Selection.*** Our portfolio management team performs extensive due diligence regarding broker-dealer selection, usage, monitoring and evaluation by considering the full range and quality of a broker’s services. These considerations include:

- Execution capability, reliability and familiarity with specific markets
- Integrity
- Current and historical responsiveness
- Historical effectiveness in executing orders

- Commission rates
- Financial condition
- Execution research services
- Operational capabilities
- Ability to handle high volume transactions
- Technology infrastructure
- Contractual terms extended (where applicable)

When a new executing broker is to be added to Arrowstreet's approved list of broker-dealers, the portfolio management team prepares a memorandum that considers the broker-dealer in light of the above factors and presents the memorandum to our Investment Committee for review and approval.

Each broker-dealer is required to acknowledge, in writing, acceptance of the specific process by which trades will be communicated to them and the parameters established for trading. This communication includes, among other items, a list of persons authorized to communicate trades and the format of trade communication.

*Monitoring.* Post-trade analysis reports consisting of charts, graphs and a narrative discussion on the costs of implementing the trading strategies are prepared by the portfolio management team on a monthly basis. These post-trade analytics allow portfolio managers and investment personnel to monitor broker-dealer performance against various market measures. These analyses consider topics such as the following: how the trading strategies performed during the prior period, overall trading costs in various markets, the costs associated with the delay in getting trades to the markets and the ability of broker-dealers used to execute trades while minimizing market impact. These analyses are presented and discussed at our monthly account review meetings, chaired by our Chief Investment Officer, and also periodically at Investment Committee meetings.

The information used in such analysis includes:

- Execution price
- Prior closing price
- Decision price
- Open, high, low and closing prices
- Volume Weighted Average Price (VWAP)
- Duration based Volume Weighted Average Price (DVWAP)
- Order % of daily volume
- Order % of duration volume
- Trade % of daily volume
- Trade % of duration volume
- Historic volume data
- Commissions
- Exchange fees

- USD market value of trades
- Local market value of trades
- Market returns over the life of orders

Various implementation shortfall metrics measured include:

- Fixed costs
- Delay costs
- Market move shortfall costs
- Execution shortfall costs
- Residual shortfall costs

Score cards that evaluate each broker-dealer are completed by our portfolio management team, and the results are shared periodically with the relevant broker-dealers as part of an evaluation process. When necessary, broker-dealers are temporarily placed on “probation” and, if performance does not improve, permanently removed from the list of approved broker-dealers.

The results of these scorecards, as well as any broker-dealer probationary measures, are discussed periodically with the broader group at Investment Committee meetings and/or account review meetings.

#### Foreign Currency

*Foreign Currency Trading with Third-Party Counterparties Selected by Arrowstreet.* Arrowstreet’s practice with regard to foreign exchange trading (other than with respect to certain currencies described below) is to execute the majority of client trades through multiple third-party counterparties that are selected on a case-by-case basis in accordance with the “Broker-Dealer Selection” principles described above. Because foreign exchange trading is conducted on a principal/counterparty basis, the creditworthiness of the counterparty is an additional important criterion in the selection of foreign exchange counterparties. Arrowstreet believes that the discretion to utilize multiple third-party counterparties allows it to seek more competitive pricing than if it were limited to a single counterparty, or if it outsourced currency trading to its clients’ custodians.

In performing these trades, Arrowstreet’s portfolio management team evaluates rates on a real time basis by assessing rates against prevailing market rates and related data trends at the time of the trade.

There are a number of instances, however, where Arrowstreet may be limited to the usage of a single counterparty or comparatively fewer counterparties than prescribed by its customary trading practices. These include circumstances where a client has imposed certain counterparty credit eligibility standards or other counterparty usage restrictions. Further, in the case of Arrowstreet Private Funds that use prime brokers, foreign currency trading may be conducted entirely with the prime brokers of such Arrowstreet Private Funds due to margin-maintenance and operational considerations. In such cases, Arrowstreet may be limited in its ability to negotiate rates or otherwise ensure the quality of executions.

*Foreign Currency Trading through Client Custodians.* Arrowstreet trades certain emerging market currencies through custodians chosen by its clients to facilitate trade settlement or for cash management purposes. This limited usage of clients’ custodians for trading such currencies is primarily due to:

- country level exchange controls that restrict, or preclude, cross-border currency movements; and/or

- the custodian's ability to reduce operational risks associated with trading these currencies.

In addition, Arrowstreet might use its clients' custodians from time to time to sweep small foreign currency balances that accumulate into U.S. dollars or other currencies as part of the cash management process.

In the situations described above, Arrowstreet believes the custodian is able to provide qualitative execution benefits that arise in light of market restrictions/conditions or small trade sizes. It is Arrowstreet's expectation that currency trades placed with a client custodian will be executed pursuant to best execution standards as agreed between the client and custodian. However, in these circumstances, Arrowstreet will not have the ability to negotiate rates or to fully evaluate the quality of the execution because important elements of the counterparty relationship are outside of its knowledge and control.

Similar practices as described above are followed for the Arrowstreet Private Funds. While Arrowstreet will similarly not have the ability to negotiate rates or seek competitive pricing in such cases, Arrowstreet has secured certain assurances with respect to the execution of such trades and the reporting that Arrowstreet receives to permit evaluation of such transactions.

### Exchange Traded Futures

Subject to the client's investment guidelines, Arrowstreet trades exchange-traded stock index futures for client accounts for the purposes of equitizing cash, risk control, market access and return enhancement. Arrowstreet currently utilizes a single futures commission merchant for such trades. The selection and monitoring of executing brokers and futures commission merchants for futures transactions will follow the same principles described above under "Broker-Dealer Selection" and will be subject to similar monitoring reviews.

A copy of our best execution policy is available to clients and prospective clients upon request.

### ***Equity Trades and Commissions***

Trades are typically conducted through program trading desks. Rates are typically, but not always, negotiated at a country level and tend to be consistent across all brokers we use. It is conventional in non-U.S. markets to calculate commissions as a specified number of basis points relative to the price of the security being traded (i.e., as a percentage of the price), rather than as an absolute amount per share traded as is the norm in the United States. We typically negotiate commissions using the basis points method for all markets, including the United States. The commission rates we negotiate in the United States are likely to be comparable to the rates negotiated in other developed, liquid markets (e.g., the U.K., Canada, and Japan). Accordingly, the commission paid on a particular transaction in a high-priced security in the United States may be higher than the commission that would have been paid for that transaction had it been calculated as an absolute amount per share. However, our experience is that, at the average price of the securities we acquire for client accounts, such basis point commission rates generally result in lower overall commissions than if we had paid commissions on a per share basis. Arrowstreet monitors market conditions and will re-negotiate the level and type of commission schedule if and when appropriate.

We typically trade on regulated markets and trading venues (including OTC markets) on which the security subject to such trade is listed, registered or otherwise admitted to trading. We also trade on non-exchange alternative trading and crossing networks. In certain limited cases, we sell or buy securities to or from a dealer off-exchange or where the dealer is acting on a principal basis.

### ***Trade Aggregation***

Our investment process is designed to generate trade orders at the individual account level. Arrowstreet's policy is then to aggregate and execute as a block order those trade orders in the same security or contract for multiple client accounts, except where a client directs otherwise. We believe that block trading may allow us to execute trades in a more timely and equitable manner and may reduce overall commission charges to our clients. Where a block order is executed at multiple prices, a weighted average price for the order will be calculated, and the block order and the related transaction costs will be allocated substantially pro rata across all participating client accounts, subject to the requirements of a particular trading market. Exceptions to the pro rata basis for allocation will not be made to systematically favor one client account over another.

### ***Directed Brokerage/Commission Recapture Arrangements***

We define the term "directed brokerage" as an arrangement whereby a broker-dealer agrees to pay client expenses in exchange for commissions. This contrasts with our definition of the term "commission recapture," which we define as a cash rebate on commissions paid. In both scenarios, the client is receiving benefits from commissions paid on its own trading activity. Under these arrangements, investment advisers do not receive products, cash rebates, or services. Instead, the advisers' clients receive the products, services or cash rebates generated by their commissions. Directed brokerage/commission recapture programs may cost clients more money because, among other things, such clients may pay higher commissions because it may not be possible to aggregate such trades with other orders to reduce transaction costs.

In certain limited circumstances, Arrowstreet may, in its sole discretion, participate in client sponsored commission recapture or directed brokerage programs with respect to equity trading. Any participation in such programs is subject to our best execution and trade allocation policies and does not take into consideration any arrangements that the client may have in place with broker-dealers. This means that Arrowstreet retains full discretion with respect to its best execution policy and trades are first assigned to brokers based on these execution principles. It is only after this assignment has taken place and trade executions are completed that a subsequent review is performed to determine whether any trades are to be flagged as participants in a client's directed brokerage or commission recapture program. Accordingly, it is the client's responsibility to satisfy itself about the adequacy of these brokerage arrangements as a whole. Arrowstreet is not able to accommodate requests to meet certain targets or goals with respect to such programs. Arrowstreet seeks to follow its typical trade allocation policies described herein with respect to clients that may be utilizing commission recapture or directed brokerage programs.

### ***Step-Out Transactions***

We define a "step-out transaction" as a transfer of all or a portion of a broker-dealer's securities position to another broker-dealer, the transfer of which does not constitute a trade. In a step-out transaction, a block trade is placed with a broker with the instruction that the broker execute the entire transaction but "step out" a portion of the trade to be allocated to a different broker that has a directed brokerage arrangement with one or more clients of the adviser. The broker with the step-out arrangement receives the commission (or a portion of it) for the stepped-out portion of the trade.

Arrowstreet would not be privy to the commission sharing arrangements between the clients and the brokers. Arrowstreet's policy is to select brokers based on its best execution policy outlined above prior

to any decision to request a step-out transaction from the executing broker. Arrowstreet generally does not engage in such transactions.

### ***Trade Errors***

Arrowstreet's policy is to provide immediate notice to our Chief Compliance Officer in the event of a trade error with respect to a client account. If it is determined that such trade error is the result of a violation of Arrowstreet's fiduciary duty, Arrowstreet will reimburse the client account for actual losses resulting from such error, if any.

### ***Referrals***

Brokers selected by us to execute transactions for client accounts may from time to time also refer clients to us. The firm has no agreement to select brokers who refer clients and will not consider client referrals in selecting or recommending brokers or dealers for its clients.

### ***Soft Dollar Benefits***

Arrowstreet does not have any commitments or understandings to trade with specific broker-dealers or to generate a specified level of brokerage commission in order to receive brokerage or research services. These commitments or understandings are generally known as "soft dollar arrangements." From time to time, Arrowstreet may receive research and brokerage services (such as electronic trading, order routing, algorithmic trading, market data, and risk monitoring services) from broker-dealers including prime brokers as an incident of doing business with these broker-dealers, but only where:

- there is no formalized arrangement with an explicit target or ratio linked to Arrowstreet's commission business with such broker-dealers; and
- Arrowstreet does not "pay up" for these items in the form of higher commissions on similarly situated client trades.

Arrowstreet executes portfolio transactions with broker-dealers only in a manner that complies with Section 28(e) of the Securities Exchange Act of 1934, as amended. Arrowstreet will execute portfolio transactions through broker-dealers only if it believes such brokers provide best execution, and in evaluating best execution Arrowstreet may consider the value of research and brokerage services received from a broker-dealer in terms of the particular transaction or Arrowstreet's responsibilities with respect to accounts for which it exercises investment discretion.

## **Item 13 – Review of Accounts**

Arrowstreet does not assign client accounts to individual portfolio managers. Rather, client accounts are reviewed on a regular basis (at least monthly) by the portfolio management, research and compliance teams, as well as the Investment Committee, for conformity with a client's investment policies and objectives as well as for investment performance. Client accounts are also reviewed by our client reporting team on at least a monthly basis to reconcile our account records to those of the clients' custodians.

Unless a client specifies otherwise, we provide each client with written monthly reports consisting of accounting statements (portfolio valuations, transaction detail, income detail, etc.), a reconciliation of the client's account with records of the client's custodian and performance information. In addition, each

client receives monthly and quarterly letters describing recent performance, account positioning and market outlook.

#### **Item 14 – Client Referrals and Other Compensation**

Arrowstreet maintains in-house client relationship management and business development teams. In addition, Arrowstreet has affiliated marketing offices located in the U.K. and Australia. Please see Item 4 for more information regarding these marketing offices.

Arrowstreet does not compensate third parties (for example, finders and placement agents, etc.) for client referrals.

#### **Item 15 – Custody**

##### ***Separate Account Assets***

Each separate account client selects and contracts with a qualified custodian of its choice to custody the assets (and provide related services, such as valuation, directed foreign exchange, income collection and claims monitoring) that the client appoints Arrowstreet to manage, and our authority with respect to such assets is generally limited to issuing instructions to the client's custodian to effect or settle trades (or matters relating thereto). As such, we do not maintain custody of separate account assets under Rule 206(4)-2 of the Investment Advisers Act.

Clients should receive at least quarterly statements from the qualified custodian that holds and maintains the client's investment assets. We urge each client to carefully review such statements and compare such official custodial records to the account statements that we may provide. Our statements may vary from custodial statements based on accounting procedures, reporting dates, or valuation methodologies of certain securities.

##### ***Arrowstreet Private Fund Assets***

As sponsor and promoter of the Arrowstreet Private Funds, Arrowstreet is involved in the selection of the custodians for the Arrowstreet Private Funds. The selection and retention process may also require approval from any additional governing body associated with the applicable Arrowstreet Private Fund (e.g., the board of directors of the applicable fund).

*QIF.* We believe that the organizational and related documents establishing the QIF do not provide sufficient control such that Arrowstreet may be deemed to have custody of the QIF sub funds' assets under Rule 206(4)-2 of the Investment Advisers Act. However, Arrowstreet complies with Rule 206(4)-2 of the Investment Advisers Act in any event because BNY Mellon Trust Company (Ireland) Limited, as custodian of the QIF sub-funds, acts as a "qualified custodian" with respect to the assets of the QIF sub-funds. The QIF sub-funds are subject to audit and investors receive annually the audited financial statements of the relevant QIF sub-fund within 120 days of the end of each sub-fund's fiscal year.

*US Group Trust.* As a result of the control exercised by Arrowstreet under the organizational documents of the US Group Trust, Arrowstreet may be deemed to have custody of the assets of each US Group Trust sub-fund under Rule 206(4)-2 of the Investment Advisers Act. Arrowstreet may also be deemed to have custody of US Group Trust sub-fund assets under such rule because of Arrowstreet's authority to cause the redemption of sub-fund interests to pay fees, if the investor has so opted. However, Arrowstreet complies with Rule 206(4)-2 of the Investment Advisers Act because The Bank of New York Mellon, as

trustee of the US Group Trust sub-funds, acts as a “qualified custodian” with respect to the assets of the US Group Trust sub-funds. The US Group Trust sub-funds are subject to audit and investors receive annually the audited financial statements of the relevant US Group Trust sub-fund within 120 days of the end of each sub-fund’s fiscal year.

*Long/Short Fund.* As a result of the control exercised by Arrowstreet affiliates under the organizational documents of each of the Long/Short Master Fund and the Long/Short Feeder Fund, Arrowstreet affiliates may be deemed to have custody of the assets of the Long/Short Fund under Rule 206(4)-2 of the Investment Advisers Act. However, with respect to the Long/Short Feeder Fund, Rule 206(4)-2 of the Investment Advisers Act is complied with because J.P. Morgan Chase Bank, N.A., acts as “qualified custodian” with respect to the cash assets of the Long/Short Feeder Fund. The shares of the Long/Short Master Fund held by the Long/Short Feeder Fund need not be held in the custody of a qualified custodian, as a result of an exemption from such requirements with respect to certain privately offered securities. With respect to the Long/Short Master Fund, Rule 206(4)-2 of the Investment Advisers Act is complied with because J.P. Morgan Clearing Corp. and UBS Securities LLC (and UBS AG), as the Master Fund’s prime brokers, each act as a “qualified custodian” with respect to the assets of the Long/Short Master Fund held by it.

The Long/Short Fund is subject to audit and investors will receive annually the audited financial statements of the Long/Short Fund within 120 days of the end of the Long/Short Fund’s fiscal year.

*CCF.* As a result of the control exercised by Arrowstreet affiliates under the organizational documents of the CCF, Arrowstreet affiliates may be deemed to have custody of the assets of each CCF sub-fund under Rule 206(4)-2 of the Investment Advisers Act. However, Arrowstreet complies with Rule 206(4)-2 of the Investment Advisers Act because BNY Mellon Trust Company (Ireland) Limited, as custodian and trustee of the CCF sub-funds, acts as a “qualified custodian” with respect to the assets of the CCF sub-funds. The CCF sub-funds are subject to audit and investors receive annually the audited financial statements of the relevant CCF sub-fund within 120 days of the end of each sub-fund’s fiscal year.

## **Item 16 – Investment Discretion**

Arrowstreet accepts authority to manage client assets on a discretionary basis pursuant to a written investment advisory agreement, including the authority to determine the securities or other assets to be bought or sold and the total amount of securities or other assets to be bought or sold, subject in some cases to restrictions agreed with the client in advance and set forth in the applicable investment advisory agreement. Arrowstreet will accept reasonable limitations on its authority through client guideline restrictions provided such restrictions are generally consistent with Arrowstreet’s investment process. Typical contract provisions include:

- restrictions relating to what constitutes a permissible or authorized investment;
- restrictions/prohibitions relating to borrowing, leverage, short selling, currency hedging and use of derivatives;
- the client’s ability to provide written instructions to Arrowstreet regarding the management of the client account (generally subject to our right to object to such instructions); and
- selected exposure limits relative to the client’s chosen benchmark.



We also have discretion in most cases to select broker-dealers, counterparties and futures commission merchants used to execute securities transactions and other transactions for our clients' accounts. Please see Item 12 for information relating to our broker-dealer/counterparty selection process.

### **Item 17 – Voting Client Securities**

With respect to our separate-account clients, Arrowstreet does not generally accept directions or guidelines from clients regarding the voting of securities held in client accounts. Accordingly, the power and authority to vote securities held in a client account (whether by proxy or otherwise) is typically vested in either Arrowstreet or the client. The authority to vote securities held in a client account must be stipulated in the client's investment management agreement or a similarly signed written instruction addressed to Arrowstreet. If such authority is vested in Arrowstreet, we will engage an independent third party proxy voting service to vote such securities.

With respect to the Arrowstreet Private Funds, we engage an independent third party proxy voting service to vote the securities held by such funds.

We believe that engaging a proxy voting service provider is in the best interest of our clients because such service provider:

- is better able to effectively monitor events affecting issuers of client securities in a careful, comprehensive and timely manner, thus allowing it to cast informed votes in accordance with its stated guidelines; and
- has appropriate procedures for addressing material conflicts of interest if any arise.

Environmental, social and corporate governance (ESG) principles are not incorporated into the proxy voting process.

We or the proxy voting service provider may determine that voting any particular security is not in a client's best interest and may refrain from voting certain securities. Arrowstreet may in certain cases refrain from voting if voting could potentially restrict Arrowstreet's ability to sell out of a particular name for certain duration. This is often the case in markets that follow the practice of "shareblocking." Since voting rights or trading rights can be affected in securities held in shareblocking markets, we generally instruct our proxy voting service provider to refrain from voting in shareblocking markets.

In addition, certain clients engage in securities lending programs, under which shares of an issuer could be on loan while that issuer is conducting a proxy solicitation. As part of the securities lending program, if the securities are on loan at the record date, the client lending the security cannot vote that proxy. Because neither Arrowstreet nor our proxy service provider are generally aware of when a security may be on loan, these securities cannot generally be recalled prior to the record date, and, therefore, in most cases, the shares on loan will not be voted.

As a result of utilizing a third party proxy voting service provider, we believe conflicts of interest between Arrowstreet and a client in the proxy voting context will be rare. If, in our reasonable judgment, a conflict of interest does arise, we will seek instructions from any affected client as to the voting of the particular proxy.

We provide clients with monthly reports of votes cast on securities in their client accounts. Clients may also contact Arrowstreet's compliance office by calling 617-919-0000 or via email at

regcompliance@arrowstreetcapital.com to obtain a copy of our proxy voting policy, the proxy voting guidelines of our service provider or a specific report of how securities were voted for their client accounts.

Prospective clients may obtain a copy of our proxy voting policy upon request.

#### **Item 18 – Financial Information**

We are not aware of any financial condition that is reasonably likely to impair our ability to meet contractual commitments to our clients. We have not been the subject of a bankruptcy petition at any time.

\* \* \*



200 Clarendon Street, Boston MA 02116  
617-919-0000  
[www.arrowstreetcapital.com](http://www.arrowstreetcapital.com)

## Form ADV Part 2B Brochure Supplement March 31, 2014

This brochure supplement to the Form ADV Part 2A Brochure provides information about supervised persons of Arrowstreet Capital, Limited Partnership (Arrowstreet), a copy of which should have been provided to you. If you have any questions about the contents of this brochure supplement, or would like an additional copy of Arrowstreet's Form ADV Part 2A Brochure, you may contact Eric Burnett by telephone at 617-919-0000 or by electronic mail at [regcompliance@arrowstreetcapital.com](mailto:regcompliance@arrowstreetcapital.com).

## **Item 1- Cover Page**

### **Peter L. Rathjens**

Arrowstreet Capital, Limited Partnership  
200 Clarendon Street, Boston MA 02116  
617-919-0000  
www.arrowstreetcapital.com

March 31, 2014

## **Item 2- Educational Background and Business Experience**

Mr. Rathjens (born 1959) currently serves as Arrowstreet's Chief Investment Officer and chairs the firm's Investment Committee. He has held these positions since the firm's inception in 1999. Prior to Arrowstreet, Mr. Rathjens served in various capacities at PanAgora Asset Management from September 1991 through July 1999, most recently as Chief Investment Officer. Mr. Rathjens also held the following positions at PanAgora Asset Management during his tenure: director of global investments, director of research and senior manager of research. Mr. Rathjens holds a Ph.D. and M.A. in economics from Princeton University, and a B.A. in mathematics and economics from Oberlin College.

Arrowstreet is registered as a Commodity Trading Advisor (CTA) and as a Commodity Pool Operator (CPO) with the Commodity Futures Trading Commission (CFTC), and is registered as a CTA and CPO with the National Futures Association (NFA). Arrowstreet is also an Approved Swap Firm (ASF) with the NFA. Mr. Rathjens is an NFA "approved principal," an NFA "associate member" and an NFA "registered associated person" of Arrowstreet in its capacity as a CTA and CPO. Mr. Rathjens is also a "swap associated person" of Arrowstreet in its capacity as an ASF. Additional information can be found on the NFA's website ([www.nfa.futures.org](http://www.nfa.futures.org)).

## **Item 3- Disciplinary Information**

Not applicable.

## **Item 4- Other Business Activities**

Mr. Rathjens also serves as a member of the Oberlin College Investment Committee which oversees the college's endowment.

## **Item 5- Additional Compensation**

Not applicable.

## **Item 6 - Supervision**

Arrowstreet's investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into its proprietary return, risk and transaction cost models. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models. Client accounts are generally traded during scheduled optimization sessions.

Arrowstreet utilizes a team approach to the implementation of its investment process and the management of client accounts. Mr. Rathjens is the firm's Chief Investment Officer and is responsible for the investment advisory activities of the firm and its team of investment professionals. Mr. Rathjens reports to the firm's board of directors.

## **Item 1- Cover Page**

### **John Y. Campbell**

Arrowstreet Capital, Limited Partnership  
200 Clarendon Street, Boston MA 02116  
617-919-0000  
www.arrowstreetcapital.com

March 31, 2014

## **Item 2- Educational Background and Business Experience**

Mr. Campbell (born 1958) currently serves as Arrowstreet's Co-Director of Research and holds a seat on the firm's Investment Committee. He has held these positions since the firm's inception in 1999. Prior to Arrowstreet, Mr. Campbell served as the director of research (external) at PanAgora Asset Management from September 1998 through June 1999, and served on its technical advisory board from 1991 to 1998. Mr. Campbell was also an assistant professor of economics at Princeton University from July 1984 through June 1989, and then a professor of economics at Princeton University from July 1989 through June 1994. He has been a professor of economics at Harvard University since 1994. Mr. Campbell holds a Ph.D. in economics from Yale University and a B.A. in philosophy, politics and economics from Oxford University.

Arrowstreet is registered as a Commodity Trading Advisor (CTA) and as a Commodity Pool Operator (CPO) with the Commodity Futures Trading Commission (CFTC), and is registered as a CTA and CPO with the National Futures Association (NFA). Arrowstreet is also an Approved Swap Firm (ASF) with the NFA. Mr. Campbell is an NFA "approved principal," an NFA "associate member" and an NFA "registered associated person" of Arrowstreet in its capacity as a CTA and CPO. Mr. Campbell is also a "swap associated person" of Arrowstreet in its capacity as an ASF. Additional information can be found on the NFA's website ([www.nfa.futures.org](http://www.nfa.futures.org)).

## **Item 3- Disciplinary Information**

Not applicable.

## **Item 4- Other Business Activities**

In addition to his duties and responsibilities at Arrowstreet, Mr. Campbell also serves as the Morton L. and Carole S. Olshan Professor of Economics at Harvard University. He has been a member of the faculty of Harvard University since July 1994.

## **Item 5- Additional Compensation**

Not applicable.

## **Item 6 - Supervision**

Arrowstreet's investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into its proprietary return, risk and transaction cost models. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models. Client accounts are generally traded during scheduled optimization sessions.

Arrowstreet utilizes a team approach to the implementation of its investment process and the management of client accounts. The firm's Chief Investment Officer, Peter L. Rathjens, is responsible for the investment advisory activities of the firm and its team of investment professionals. Mr. Rathjens reports to the firm's board of directors.

## **Item 1- Cover Page**

### **Tuomo Vuolteenaho**

Arrowstreet Capital, Limited Partnership  
200 Clarendon Street, Boston MA 02116  
617-919-0000  
www.arrowstreetcapital.com

March 31, 2014

## **Item 2- Educational Background and Business Experience**

Mr. Vuolteenaho (born 1973) currently serves as Arrowstreet's Co-Director of Research and holds a seat on the firm's Investment Committee. He has held these positions since January 2005. Prior to Arrowstreet, Mr. Vuolteenaho was an assistant professor, then associate professor, of economics at Harvard University from July 2000 to June 2005 while also serving as a faculty research fellow at the National Bureau of Economic Research during the same time period. Mr. Vuolteenaho holds a Ph.D. in business finance from the University of Chicago and a B.S. and M.S. in business administration from the Helsinki School of Economics.

Arrowstreet is registered as a Commodity Trading Advisor (CTA) and as a Commodity Pool Operator (CPO) with the Commodity Futures Trading Commission (CFTC), and is registered as a CTA and CPO with the National Futures Association (NFA). Arrowstreet is also an Approved Swap Firm (ASF) with the NFA. Mr. Vuolteenaho is an NFA "approved principal," an NFA "associate member" and an NFA "registered associated person" of Arrowstreet in its capacity as a CTA and CPO. Mr. Vuolteenaho is also a "swap associated person" of Arrowstreet in its capacity as an ASF. Additional information can be found on the NFA's website ([www.nfa.futures.org](http://www.nfa.futures.org)).

## **Item 3- Disciplinary Information**

Not applicable.

## **Item 4- Other Business Activities**

Not applicable.

## **Item 5- Additional Compensation**

Not applicable.

## **Item 6 - Supervision**

Arrowstreet's investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into its proprietary return, risk and transaction cost models. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models. Client accounts are generally traded during scheduled optimization sessions.

Arrowstreet utilizes a team approach to the implementation of its investment process and the management of client accounts. The firm's Chief Investment Officer, Peter L. Rathjens, is responsible for the investment advisory activities of the firm and its team of investment professionals. Mr. Rathjens reports to the firm's board of directors.

## **Item 1- Cover Page**

### **John D. Capeci**

Arrowstreet Capital, Limited Partnership  
200 Clarendon Street, Boston MA 02116  
617-919-0000  
www.arrowstreetcapital.com

March 31, 2014

## **Item 2- Educational Background and Business Experience**

Mr. Capeci (born 1962) currently serves as a Portfolio Manager of Arrowstreet and holds a seat on the firm's Investment Committee. He has held these positions since September 1999. Prior to Arrowstreet, Mr. Capeci served in various roles at PanAgora Asset Management from January 1995 through September 1999, most recently as director of research. He also served as an assistant professor of economics at Brandeis University from July 1989 through December 1994. Mr. Capeci holds a Ph.D. in economics from Princeton University and a B.A. in economics from Harvard University.

Arrowstreet is registered as a Commodity Trading Advisor (CTA) and as a Commodity Pool Operator (CPO) with the Commodity Futures Trading Commission (CFTC), and is registered as a CTA and CPO with the National Futures Association (NFA). Arrowstreet is also an Approved Swap Firm (ASF) with the NFA. Mr. Capeci is an NFA "associate member" and an NFA "registered associated person" of Arrowstreet in its capacity as a CTA and CPO. Mr. Capeci is also a "swap associated person" of Arrowstreet in its capacity as an ASF. Additional information can be found on the NFA's website ([www.nfa.futures.org](http://www.nfa.futures.org)).

## **Item 3- Disciplinary Information**

Not applicable.

## **Item 4- Other Business Activities**

Not applicable.

## **Item 5- Additional Compensation**

Not applicable.

## **Item 6 - Supervision**

Arrowstreet's investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into its proprietary return, risk and transaction cost models. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models. Client accounts are generally traded during scheduled optimization sessions.

Arrowstreet utilizes a team approach to the implementation of its investment process and the management of client accounts. The firm's Chief Investment Officer, Peter L. Rathjens, is responsible for the investment advisory activities of the firm and its team of investment professionals. Mr. Rathjens reports to the firm's board of directors.

**Item 1- Cover Page****Manolis Liodakis**

Arrowstreet Capital, Limited Partnership  
200 Clarendon Street, Boston MA 02116  
617-919-0000  
www.arrowstreetcapital.com

March 31, 2014

**Item 2- Educational Background and Business Experience**

Mr. Liodakis (born 1972) currently serves as a Portfolio Manager of Arrowstreet and holds a seat on the firm's Investment Committee. He has held these positions since August 2012. Prior to Arrowstreet, Mr. Liodakis served in various roles at Citadel Asset Management from October 2008 through August 2011, most recently as Managing Director, Global Equities Hybrid Strategies. He also served as Director of European Quantitative Equity Research for Citigroup Global Markets from July 2001 through August 2008, and as Managing Director for Citigroup Global Markets from January 2004 through August 2008. Mr. Liodakis holds a Ph.D. in finance from City University (CASS) Business School (London, UK), an MBA in finance from the University of Birmingham (Birmingham, UK) and a B.A. in economics and business from Athens University of Economics and Business (Athens, Greece).

Arrowstreet is registered as a Commodity Trading Advisor (CTA) and as a Commodity Pool Operator (CPO) with the Commodity Futures Trading Commission (CFTC), and is registered as a CTA and CPO with the National Futures Association (NFA). Arrowstreet is also an Approved Swap Firm (ASF) with the NFA. Mr. Liodakis is an NFA "associate member" and an NFA "registered associated person" of Arrowstreet in its capacity as a CTA and CPO. Mr. Liodakis is also a "swap associated person" of Arrowstreet in its capacity as an ASF. Additional information can be found on the NFA's website ([www.nfa.futures.org](http://www.nfa.futures.org)).

**Item 3- Disciplinary Information**

Not applicable.

**Item 4- Other Business Activities**

Not applicable.

**Item 5- Additional Compensation**

Not applicable.

**Item 6 - Supervision**

Arrowstreet's investment process utilizes quantitative methods that focus on identifying and incorporating investment signals into its proprietary return, risk and transaction cost models. Portfolios are constructed through the use of a mean variance optimizer and proprietary risk and transaction cost models. Client accounts are generally traded during scheduled optimization sessions.

Arrowstreet utilizes a team approach to the implementation of its investment process and the management of client accounts. The firm's Chief Investment Officer, Peter L. Rathjens, is responsible for the investment advisory activities of the firm and its team of investment professionals. Mr. Rathjens reports to the firm's board of directors.