Morgan Stanley Smith Barney LLC - Held NMS Stocks and Options Order Routing Public Report Generated on Fri Apr 28 2023 11:09:07 GMT-0400 (Eastern Daylight Time)

1st Quarter, 2023

January 2023

S&P 500 Stocks

Summary

	Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
Ì	100.00	95.01	0.38	2.99	1.63

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	93.74	95.11	71.97	67.93	66.50	84.39	0.0066	176.63	0.2363	18,367.41	23.4093	-4,565.84	-4.4247
CITADEL SECURITIES LLC	3.54	2.67	13.93	16.54	27.61	2.69	20.0597	0.07	19.4444	0.00	0.0000	0.15	19.7368
Two Sigma Securities, LLC	2.55	2.04	13.62	15.27	5.88	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Americas, LLC	0.18	0.18	0.44	0.26	0.02	1.01	0.0252	0.30	0.4625	0.00	0.0000	0.00	0.0000
G1 Execution Services, LLC	0.00	0.00	0.05	0.00	0.00	0.47	19.8312	0.51	20.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MS&Co"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel receive servicing, and administration of their MSSB brokerage or advised accounts and the generation of their soft of the servicing, and administration of their MSSB brokerage or advised accounts. Among other things, MSSB freeeives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders, apart from the U.S. securities exchange rebates described in further detail below. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//uquarterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal passis and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or provement. Such internalize customer orders to allow the customer orders to liquidity and to offer customer orders opportunities for management. Such internalize customer orders to allow the customer orders to liquidity and to offer customer orders of liquidity of their books and charge explicit fees for orders that extract liquidity from their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges to which it routes or directs MSSB customer orders. These U.S. exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations. MSSB may also receive incremental pricing benefits from U.S securities exchanges and/or electronic communication networks if certain volume thresholds are met. The net of U.S. escurities exchange fees paid by, and rebates provided to, MSSB Full-Service Channel customer executions are passed through to MSSB. As such, these rebate payments could theoretically incentivize MSSB to route a higher percentage of customer orders to MSSBCo, subject to MSSBS independent order routing and best execution obligations. Additionally, affiliates of MSSB maintain

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Choe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel orders to MS&Co for execution directly. Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co will be combined with any other order flow that MSS&Co routes to the exchange tiered pricing models. MS&Co meets the exchange tiered pricing model in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for overder flow on such orders from Citadel. In addition, as more fully described below, Citadel may send certain MSSB customer orders to an exchange or other market center for execution, including to market centers from which Citadel may receive payment in the form of rebates. Converge accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSPs \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel orders over the Self-Directed Channel orders in the self-Directed Channel orders or suttent of MSSB, a limited number of Self-Directed Channel orders or suttent or self-Directed Channel orders or suttent o

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide less) price improvement or not provide (or provide less) payment for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel such

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel, Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders sinclude details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held had not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's S0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including G1X. While nearly all Self-Directed Channel customers were customers of MSSB's admission on the self-Directed Channel orders for Self-Directed Channel orders for Self-Directed Channel orders for Self-Directed Channel orders for the self-Dire

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to provide profic in provement or not provide (or provide less) price improvement or not provide (or provide less) payment for order flow, or (iii) retain a larger portion of anticipated profit must not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must not provide profit on the sub-categories in the sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

January 2023

Non-S&P 500 Stocks

Summary

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Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	81.95	0.78	15.14	2.12

Venues

Venue - Non-directed Order Flow	Non- Directed Orders Orders (%) (%)		Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)	
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Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	94.06	94.89	79.21	93.82	68.93	-52.88	-0.0016	-466.73	-0.0889	69,483.85	18.4766	-7,522.66	-3.6035
CITADEL SECURITIES LLC	3.34	2.72	10.09	3.18	26.27	0.30	20.2703	0.15	3.9578	0.00	0.0000	0.00	0.0000
Two Sigma Securities, LLC	2.46	2.25	10.18	2.93	4.75	0.04	20.0000	0.00	0.0000	0.00	0.0000	0.01	20.0000
Virtu Americas, LLC	0.14	0.15	0.50	0.06	0.05	0.07	0.0007	0.05	0.0032	0.00	0.0000	0.04	0.0346
G1 Execution Services, LLC	0.00	0.00	0.01	0.00	0.01	0.06	18.7500	0.00	0.0000	0.01	50.0000	0.03	30.0000
Jane Street Capital	0.00	0.00	0.00	0.00	0.00	0.05	20.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC	0.00	0.00	0.00	0.00	0.00	0.03	20.0000	0.00	0.0000	0.00	0.0000	0.02	20.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Mox an Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MS&Co"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts, accounts, including the services of a Financial Advisor. Among other things, MSSB does not seek or receive payment for order flow on such orders, apart from the U.S. securities exchange rebates described in further detail below. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). While nearly all Self-Directed Channel customers were customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel customers of mSSB during Q1 2023. Quarterly order routing-statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal or for picle is principal basis and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or principal or risk principal assis and may receive executions of these executions, MS&Co routes orders to allow the customer to denote that provide liquidity or their books and charge explicit fees for orders that extract liquidity from their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges to which it routes or directs MSSB customer orders. These U.S. exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations. MSSB may also receive incremental pricing benefits from U.S. securities exchanges and/or electronic communication networks if certain volume thresholds are met. The net of U.S. escurities exchange fees paid by, and rebates provided to, MSSB full-Service Channel customer executions are reassed through to MSSB. As such, these rebate payments could theoretically incentivize MSSB to route a higher percentage of customer orders to MSSCo, subject to MSSB's independent order routing and best execution of orders.

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Choe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel orders to MS&Co for execution directly. Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co exchanges repetited Channel customer order execution on those exchanges, depending on whether the order added to or subtracted from liquidity on the exchange, which are passed through to MSSB at the rates and amounts reflected in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for on such orders from Citadel. In addition, as more fully described below, Citadel may receive payment in the form of rebates or orders to an exchange or other market centers for execution, including to market centers from which Citadel may receive payment in the form of rebates when the form of rebates or their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel outstomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders include details on Full-Service Channel orders) include only those Self-Directed Channel orders outled by MSSB. Quarterly order-routing-report.

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide price improvement; must be allocated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Citadel's and increased allocation to any one sub-categories, such that an increased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel. A market maker such as Citadel executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders sinclude details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held had not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers generally do not pay base counts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, including G1X. While nearly all Self-Directed Channel orders of MSSB's a limited number of Self-Directed Channel customers were customers of MSSB during Q1 2023. The Self-Directed Channel orders routed by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to provide profice improvement of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit must be allocation to not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories in the anticipated profit must be allocated above, including the risk of overallocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from G1X on these order executions and instead is compensated directly by MSSB's customers as described above

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Jane Street Capital:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Jane Street Capital ("Jane Street") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brok therage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account of their proving the services of a Financial Advisor. Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Jane Street. While nearly all Self-Directed Channel orders routed by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report. MSSB does not route Full-Service Channel NMS equity orders to Jane Street.

Jane Street generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Jane Street in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Jane Street for NMS equity executions priced at \$1.00 per share for non-directed. Public Publ

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Jane Street to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Jane Street, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Jane Street.

There is a potential conflict for a market maker such as Jane Street both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street can (i) forgo a portion of such anticipated profit to pay for order flow. A market maker (such as Jane Street's) anticipated profit to pay for order flow, a market maker's (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit and not provide (or provide (or provide (or provide (or provide less) price improvement or not provide (or provide less) price improvement or not provide (or provide (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit to pay for order flow and larger portion of such anticipated profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for order flow and larger profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for ord

In addition to revenues that Jane Street may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to Jane Street, Jane Street also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Jane Street to route higher percentages of MSSB customer orders to particular venues over others, subject to Jane Street's independent order routing and best execution obligations. Exchange rebates provided to Jane Street for MSSB customer executions are not passed through to MSSB or its customers, although Jane Street could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

UBS Securities, LLC

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to UBS Securities, LLC ("UBS") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). Customers of the Full-Service Channel receive servicing, and administration of their MsSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and enter orders and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//what-we-offer/pricing-and-rates. Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including UBS. While nearly all Self-Directed Channel orders routed by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com//lyquarterly-order-routing-report. MSSB does not route Full-Service Channel NMSS equity orders to UBS.

UBS generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from UBS in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB does not receive payment from UBS for NMS equity executions priced below \$1.00 per share. MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Full-Service Channel customer orders to UBS.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow UBS to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and UBS, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to UBS.

There is a potential conflict for a market maker such as UBS both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as UBS can (i) forgo a portion of such anticipated profit to provide profic improvement; (ii) forgo a portion of such anticipated profit to provide profit may be allocated profit and not provide (or provide less) payment for order flow. A market maker's (such as UBS's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to UBS.

In addition to revenues that UBS may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to UBS, UBS also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize UBS to route higher percentaleges of MSSB customer orders to particular venues over others, subject to UBS's independent order routing and best execution self-Directed Channel orders. Exchange rebates provided to UBS for MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	41.36	7.41	34.09	17.15

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	83.95	83.40	84.03	83.95	85.27	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities, LLC	12.05	12.45	11.94	12.02	11.21	3.36	48.0000	4.80	48.0000	4.32	48.0000	82.56	48.0000
Wolverine Execution Services, LLC	2.98	3.10	2.95	2.98	2.70	0.00	0.0000	0.48	48.0000	0.96	48.0000	0.96	48.0000
Global Execution Brokers LP	0.99	1.05	1.07	1.04	0.74	0.96	0.0116	3.36	0.0782	0.00	0.0000	116.16	3.6517
Dash/IMC Financial Markets	0.02	0.00	0.00	0.00	0.09	0.00	0.0000	0.00	0.0000	0.00	0.0000	8.64	48.0000
Citigroup Global Markets Inc.	0.00	0.00	0.01	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC ("MSSCo"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor.

MSSB sends orders in U.S.-listed options to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. MSSB customer orders in U.S.-listed options that are sent to MS&Co are then routed by MS&Co to a U.S. options exchange to be either crossed or executed against MS&Co interest and/or other liquidity on such exchanges, subject to the principles of best execution. In general, MS&Co generates revenue from executing or facilitating the execution of MSSB customer orders. MSSB does not receive payment from MS&Co for the options orders it routes to MS&Co (i.e. payment for order flow), either for Full-Service Channel options orders or Self-Directed Channel options orders executed by MS&Co and MSSB and MS&Co do not have any arrangements:

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to MS&Co.

In the course of providing liquidity, MS&Co may preference option orders to MS&Co's options market maker or third-party market makers on the applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. MS&Co also participates in exchange-sponsored listed option payment for order flow programs under which MS&Co may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates, including from exchanges in which MSSB's parent company Morgan Stanley or another affiliated entity may have a financial interest. These U.S. options exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations.

MS&Co. receives rebates and pays fees for the routing of customer orders in exchange listed options to option exchanges. When the rebates received exceed the fees paid to such venue, MS&Co. receives benefits from the trading activity. In addition, certain exchanges offer volume-based tiered rates based on the type of order routed. MS&Co receives incremental pricing benefits from exchange offers volume-based tiered rates. The volume tiers are published in the fee schedule by the exchange. Exchange rebates provided and fees charged to MS&Co for MSSB customer executions by the U.S. options exchanges are not passed through to MSSB or its customerers. However, MSSB is an affiliated company of MS&Co, which is a market maker on various U.S. options exchanges and MS&Co may realize market-making profits from MSSB orders routed to MS&Co for execution. In addition, MSSB orders that MS&Co executes are combined on a monthly basis with other order flow that MS&Co executes for tiered pricing program incentive purposes and it is possible that MS&Co could generated by MSSB's corporate affiliation with MS&Co, MSSB may share indirectly in any such profits (whether from market-making, from pricing programs, or otherwise) generated by MS&Co.

Citadel Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). MSSB receives and handles non-directed options orders on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Citadel. In addition, as more fully described below, Citadel executes MSSB customer orders on U.S. listed options exchanges from which Citadel may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their orders had advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's S0 based commission policy, pursuant to which customers generally do not pay base commission or order hadding and execution of Self-Directed Channel orders in NMS securities that are options commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for such order flow from the

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Citadel in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Citadel for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel order in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions. Furthermore, MSSB and Citadel do not have any arrangements:

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict to an options market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide (or provide less) payment for order flow. An options market maker's (such as Citadel's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel's

Citadel also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. In addition to revenues that Citadel may collect for executing or facilitating the execution of MSSB customer orders, Citadel may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. Citadel also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. MSSB does not share directly in any rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Wolverine Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Wolverine Execution Services, LLC ("Wolverine") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). MSSB receives and handles non-directed options orders on a held and not held be serviced by the services in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Wolverine executes MSSB customer orders from Wolverine may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's S0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders from the options marke

Wolverine generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Wolverine in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Wolverine for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Wolverine with respect to Full-Service Channel order executions. Furthermore, MSSB and Wolverine do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Wolverine.

There is a potential conflict to an options market maker such as Wolverine both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker such as Wolverine can (i) forgo a portion of such anticipated profit an options market maker such as Wolverine can (ii) forgo a portion of such anticipated profit to pay for order flow; or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as Wolverine's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Wolverine.

Wolverine also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. In addition to revenues that Wolverine may also receive remuneration from the U.S. options exchange rebate payments could, in theory, incentivize Wolverine to route higher percentages of MSSB customer orders to particular venues over others, subject to Wolverine's independent order routing and best execution obligations. Wolverine also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. MSSB does not share directly in any rebates Wolverine receives for executions of MSSB customer orders, although Wolverine could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Global Execution Brokers LP:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Global Execution Brokers, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generatly generate and enter orders themselves of a Financial Advisor. Conversely, customers of the Self-Directed Channel generation and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates) do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders. Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for such order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Citadel. While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders routed by ETS are available at https://us.etrade.com//quarterly-order-routing-report. MSSB does not route Full-Service Channel options orders to G1X.

G1X generates revenue from executing or facilitating the execution of MSSB Self-Directed Channel customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from G1X (based upon the consideration G1X receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for spirele and complex equity options orders. MSSB does not receive payment from G1X for index options executions on Self-Directed Channel orders of customers, which are orders of customers which are orders of sustomers which are orders of sustomers which has protes of \$0.90 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, MSSB does not route Full-Service Channel customer orders to G1X. Furthermore, MSSB and G1X do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict to an options market maker such as G1X both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as G1X can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other categories, with the risk of overallocation to market maker profits at the expense of providing price improvement on MSSB customer orders mitigated by market maker competition for order flow (as measured by the amount of price improvement provided), under the same general payment for order flow terms applicable to G1X.

G1X also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, G1X can earn a profit from such market-making executions. In addition to revenues that G1X may collect for executing or facilitating the execution of Self-Directed Channel customer orders, G1X may also receive remuneration from the U.S. options exchanges to which it routes or directs Self-Directed Channel customer orders in the form of rebates. These U.S. options exchange rebates payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligation. Exchange rebates provided to G1X for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although G1X could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Dash/IMC Financial Markets:

Morgan Stanley Smith Barney LLC ("MSSB") routes U.S.-listed options orders to Dash Financial Technologies, LLC ("Dash") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel". Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brockmers of the Full-Service Channel generate and enter orders themselves for their MSSB accounts, including the services of an MSSB Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their MSSB accounts, including the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Dash. While nearly all E*TRADE from Morgan Stanley Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel options orders to Dash.

Dash generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Dash (based upon the consideration Dash receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Dash for index options executions on Self-Directed Channel orders of Professional Customers, which has average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not route Full-Service Channel customer orders to Dash. Furthermore, MSSB and Dash do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Dash.

In connection with Dash's handling of MSSB retail equity option orders and solely with respect to Self-Directed Channel orders, Dash has arrangements with multiple, unaffiliated liquidity providers, including IMC Financial Markets, designed to facilitate liquidity provision and price improvement opportunities. Pursuant to these arrangements, Dash routes MSSB Self-Directed Channel options orders to exchanges and may preference the liquidity providers on such applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. The liquidity providers provide Dash with payment in connection with Dash's routing of MSSB Self-Directed Channel options orders, including through reciprocal order flow arrangements between Dash and such liquidity provider and/or payment per contract to Dash in return for Self-Directed Channel options orders that Dash routes or directs. Dash provides payment to MSSB on such Self-Directed Channel options orders to Dash or receive payment from Dash with respect to Full-Service Channel options order executions.

There is a potential conflict to Dash and/or the liquidity provider to which Dash routes orders both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the liquidity provider seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, the liquidity provider can (i) forgo a portion of such anticipated profit to pay Dash (and for Dash, in turn, to pay MSSB) for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. The liquidity provider's anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other categories. Dash and the liquidity provider can also adjust the amount of profit that the liquidity provider shares with Dash. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Dash.

Dash also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, Dash can earn a profit from such market-making executions. In addition to revenues that Dash may collect for executing or facilitating the execution of Self-Directed Channel customer orders, Dash may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Dash to route higher percentages of MSSB customer orders to particular venues over others, subject to Dash's independent order routing and best execution obligations. MSSB does not share directly in any rebates Dash receives for executions of MSSB customers orders, although Dash could potentially use these rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Citigroup Global Markets Inc.:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Citigroup Global Markets Inc. ("Citigroup") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel he Full-Service Channel ("Self-Directed Channel"). Ustomers of the Full-Service Channel receive servicings, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. MSSB does not route Self-Directed Channel customer options orders to Citigroup and the tables above reflect Full-Service Channel order executions only. For clarity, MSSB does not route Self-Directed Channel options orders to Citigroup, Additionally, MSSB and Citigroup of or Full-Service Channel options orders to Citigroup of a Full-Service Channel options orders to Citigroup of a Full-Service Channel options orders to Citigroup of or Full-Service Channel options orders to Citigroup of the full-Service Channel options orders to Citigroup of

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citigroup.

Citigroup may receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Citigroup to route higher percentages of MSSB customer orders to particular venues over others, subject to Citigroup's independent order routing and best execution obligation. Exchange rebates provided to Citigroup for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although Citigroup's receipt of such rebates could potentially be used to provide price improvement to MSSB customers.

February 2023

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-	Non-Marketable Limit Orders as % of Non-	Other Orders as % of Non-Directed Orders
as % of All Orders	Non-Directed Orders	Directed Orders	Directed Orders	Non-Directed Orders

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	94.50	0.45	3.58	1.47

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	93.13	94.73	71.06	63.91	67.78	3.91	0.0003	4.99	0.0088	16,880.92	25.7688	-3,663.34	-3.3780
CITADEL SECURITIES LLC	3.80	2.85	13.64	18.23	26.86	2.06	20.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Two Sigma Securities, LLC	2.87	2.22	14.89	17.62	5.30	0.00	20.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Americas, LLC	0.20	0.20	0.41	0.23	0.05	1.53	0.0296	0.00	0.0000	0.00	0.0000	0.00	0.0000
G1 Execution Services, LLC	0.00	0.00	0.00	0.01	0.00	0.71	20.0565	0.00	0.0000	0.01	25.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanleý Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MSSB") is an affiliate of Morgan Stanley Self-Directed Channel for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel For its wealth management customers for the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts, and maninistration of their MSSB brokerage or advised accounts and how for each for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a restriction of order show on such orders from commissions on their brokerage account orders and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/vhat-we-offer/pricing-and-rates). While nearly all Self-Directed Channel customers were customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel customers were customers of MSSB during Q1 2023. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal or rispleas is and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or price improvement. Such internalize customer orders to allow the customer orders to allow the customer orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges that offer cash credits for orders that provide liquidity to their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations. MSSB may also receive incremental pricing benefits from U.S securities exchanges and/or electronic communication networks if certain volume thresholds are met. The net of U.S. securities exchange fees paid by, and rebates provided to, MSSB full-Service Channel customer executions are passed through to MSSB to route a higher percentage of customer orders to MSSB countered to appreciate as a result of any profits generated from the execution of orders.

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Choe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co will be combined with any other order flow that MS&Co routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co meets the exchanges, depending on whether the order added to or subtracted from liquidity on the exchange, which are passed through to MSSB at the rates and amounts reflected in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for on such orders from Citadel. In addition, as more fully described below, Citadel may receive payment in the form of rebates or orders to an exchange or other market centers for execution, including to market centers from which Citadel may receive payment in the form of rebates when the form of rebates or their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel outstomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders include details on Full-Service Channel orders) include only those Self-Directed Channel orders outled by MSSB. Quarterly order-routing-report.

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide price improvement; must be allocated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Citadel's and increased allocation to any one sub-categories, such that an increased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel. A market maker such as Citadel executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders include details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held had not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's S0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including G1X. While nearly all Self-Directed Channel customers were customers of MSSB's admission on the self-Directed Channel orders for Self-Directed Channel orders for Self-Directed Channel orders for Self-Directed Channel orders for the self-Dire

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to provide profic in provement or not provide (or provide less) price improvement or not provide (or provide less) payment for order flow, or (iii) retain a larger portion of anticipated profit must not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must not provide profit on the sub-categories in the sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

February 2023

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	81.44	0.86	15.62	2.08

Venues

Venue - Non-directed Order Flow	Non- Directed Orders Orders (%) (%)		Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)	
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Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	93.11	94.26	75.66	91.30	68.54	34.57	0.0011	-1,473.78	-0.2635	88,420.37	19.1809	-6,911.66	-3.4530
CITADEL SECURITIES LLC	3.92	3.11	11.99	4.69	26.73	1.33	18.1694	0.01	0.0974	0.00	0.0000	0.02	4.0000
Two Sigma Securities, LLC	2.78	2.42	11.73	3.93	4.40	0.02	4.6512	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Americas, LLC	0.17	0.18	0.46	0.08	0.14	0.79	0.0092	0.00	0.0000	0.00	0.0003	0.02	0.0247
G1 Execution Services, LLC	0.01	0.01	0.07	0.00	0.12	0.03	1.0239	0.00	0.0000	0.32	30.1887	0.00	0.0000
Jane Street Capital	0.01	0.01	0.08	0.00	0.05	0.46	17.0787	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC	0.00	0.00	0.01	0.00	0.01	0.01	20.0000	0.01	16.0000	0.00	0.0000	0.06	17.2222
The Nasdaq Stock Market	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanleý Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MSSB") is an affiliate of Morgan Stanley Self-Directed Channel for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts act in the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts based upon the self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//vjaurterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal or for pickes principal basis and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or price improvement. Such internalize customer orders to allow the customer orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges to which it routes or directs MSSB customer orders. These U.S. exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations. MSSB may also receive incremental pricing benefits from U.S securities exchanges and/or electronic communication networks if certain volume thresholds are met. The net of U.S. securities exchange fees paid by, and rebates provided to, MSSB full-Service Channel customer executions are passed through to MSSB. As such, these rebate payments could theoretically incentivize MSSB to route a higher percentage of customer orders to MSSB. such these rebate payments could theoretically incentivize MSSB to route a higher percentage of customer orders to MSSB. Subject to MSSB maintain ownership interests in certain market centers that stand to appreciate as a result of any profits generated

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Choe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co will be combined with any other order flow that MS&Co routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co mests the exchanges, depending on whether the order added to or subtracted from liquidity on the exchange, which are passed through to MSSB at the rates and amounts reflected in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for on such orders from Citadel. In addition, as more fully described below, Citadel may receive payment in the form of rebates or orders to an exchange or other market centers for execution, including to market centers from which Citadel may receive payment in the form of rebates when the form of rebates or their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel outstomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders include details on Full-Service Channel orders) include only those Self-Directed Channel orders outled by MSSB. Quarterly order-routing-report.

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide price improvement; must be allocated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Citadel's and increased allocation to any one sub-categories, such that an increased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel. A market maker such as Citadel executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders include details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held had not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers generally do not pay base counts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, including G1X. While nearly all Self-Directed Channel orders of MSSB's a limited number of Self-Directed Channel customers were customers of MSSB during Q1 2023. The Self-Directed Channel orders routed by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to provide profice improvement of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit must be allocation to not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories in the anticipated profit must be allocated above, including the risk of overallocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from G1X on these order executions and instead is compensated directly by MSSB's customers as described above

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Jane Street Capital:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Jane Street Capital ("Jane Street") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts made accounts. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MisSB's \$0 commissions policy, pursuant to which customers generally do not pay base commissions or order handling and execution of themselves for order flow from equity securities market makers, including Jane Street. While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders were customers of MSSB does not charge routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report. MSSB does not route Full-Service Channel NMS equity orders to Jane Street.

Jane Street generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Jane Street in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Jane Street for NMS equity executions priced at \$1.00 per share for non-directed, NMS equity non-marketable limit order executions priced with \$1.00 per share. Apart from certain Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Channel NMS equity orders to Jane Street.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Jane Street to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Jane Street, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Jane Street.

There is a potential conflict for a market maker such as Jane Street both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street and (i) forgo a portion of such anticipated profit to provide provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide less) price improvement or not provide (or provide less) price improvement for order flow. A market maker's (such as Jane Street's) and such as Jane Street's a

In addition to revenues that Jane Street may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to Jane Street, Jane Street also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Jane Street to route higher percentages of MSSB customer orders to particular venues over others, subject to Jane Street's independent order routing and best execution obligations. Exchange rebates provided to Jane Street for MSSB customer executions are not passed through to MSSB or its customers, although Jane Street could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

UBS Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to UBS Securities, LLC ("UBS") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their Mess brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//what-we-offer/pricing-and-rates. Because MSSB does not charge commissions on these Self-Directed Channel orders, including UBS. While nearly all Self-Directed Channel orders for Self-Directed Channel orders of Sel

UBS generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from UBS in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB does not receive payment from UBS for NMS equity executions priced below \$1.00 per share. MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Full-Service Channel customer orders to UBS.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow UBS to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and UBS, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to UBS.

There is a potential conflict for a market maker such as UBS both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as UBS can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement or not provide (or provide less) payment for order flow. A market maker's (such as UBS's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to UBS.

In addition to revenues that UBS may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to UBS, UBS also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize UBS to route higher percentaleges of MSSB customer orders to particular venues over others, subject to UBS's independent order routing and best execution self-Directed Channel orders. Exchange rebates provided to UBS for MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

The Nasdag Stock Market:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to the Nasdaq Stock Market ("NASDAQ") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel roders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts and the generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS equities orders (subject to disclosed exceptions described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through payment for order flow from MSSB's equity market makers and, as described in further detail below, from rebates on executions of Self-Directed Channel orders that MSSB routes to certain U.S. securities exchanges directly and indirectly, including NASDAQ. While MSSB decisions of Self-Directed Channel orders based on, and consistent with its best execution obligations, these U.S. exchange rebate payments could, in theory, incentivize MSSB to route higher percentages of MSSB customer orders to particular venues over others. While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel customer

MSSB either pays a fee or receives a rebate for each Self-Directed Channel customer order execution on NASDAQ, depending on whether the order added to or subtracted from liquidity on the exchange. For clarity, MSSB pays such fee or receives such fee or receives such rebate, as applicable, for executions of Self-Directed Channel orders that MSSB routes to NASDAQ directly though MSSB may also benefit indirectly from profits realized from exchange rebates to MSSB's affiliate MS&Co for executions on NASDAQ. As a result of the corporate affiliation between MS&Co and MSSB, MSSB may share indirectly in any such profits generated by MS&Co. The fees and rebates referenced above are subject to volume prioring. To the extent that MSSB meets the execution volume thresholds necessary to qualify for preferred pricing under NASDAQ. Fees Schedule in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because NASDAQ offers higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of MSSB customer orders to NASDAQ rather than another venue in order to reach a higher tier. MSSB and NASDAQ, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules beyond the tiered volume model set forth in the NASDAQ Fees Schedule as described above; or
- D. that require MSSB to route any orders or a minimum number of orders to NASDAO.

The fees MSSB pays and rebates MSSB receives from NASDAQ for NMS equities executions are determined based on NASDAQ's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by NASDAQ in the NASDAQ's Executions are determined based on NASDAQ's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are published publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly by NASDAQ in the NASDAQ's publicly available rates are publicly available.

MSSB also participates in NASDAQ's retail order priority program under which eligible retail orders receive priority ahead of other available interest at a given price level or other enhanced execution benefits. MSSB reviews customers' activity on a periodic basis to determine program eligibility and reserves the right to choose whether to participate in the NASDAQ retail order priority program. MSSB orders routed to NASDAQ through MS&Co will be combined with any other order flow that MS&Co routes to NASDAQ for the purpose of determining the applicable pricing under NASDAQ's tiered pricing model described above. It is possible that MS&Co could generate additional profit as a result of the combination of such order flow and the incentives of such tiered pricing program. Further disclosures regarding routing of orders through MS&Co, including to NASDAQ, are provided in the material aspect disclosure for MS&Co.

February 2023

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	40.92	7.40	35.95	15.73

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	83.78	83.70	83.65	83.62	84.42	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities, LLC	12.12	12.16	11.92	12.36	11.53	9.12	48.0000	0.96	48.0000	1.44	48.0000	10.56	48.0000
Wolverine Execution Services, LLC	3.01	3.06	3.27	3.01	2.74	1.92	24.0000	1.44	48.0000	0.48	24.0000	4.80	26.6667

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Global Execution Brokers LP	1.02	1.07	1.13	0.99	0.94	6.24	0.0885	0.48	0.0094	2.88	0.1042	7.68	0.2254
Dash/IMC Financial Markets	0.07	0.01	0.01	0.02	0.37	3.36	48.0000	0.48	48.0000	3.84	48.0000	195.36	48.0000
Citigroup Global Markets Inc.	0.00	0.00	0.01	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC ("MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor.

MSSB sends orders in U.S.-listed options to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. MSSB customer orders in U.S.-listed options that are sent to MS&Co are then routed by MS&Co to a U.S. options exchange to be either crossed or executed against MS&Co interest and/or other liquidity on such exchanges, subject to the principles of best execution. In general, MS&Co generates revenue from executing or facilitating the execution of MSSB customer orders. MSSB does not receive payment from MS&Co for the options orders it routes to MS&Co (i.e. payment for order flow), either for Full-Service Channel options orders or Self-Directed Channel options orders executed by MS&Co do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to MS&Co.

In the course of providing liquidity, MS&Co may preference option orders to MS&Co's options market maker or third-party market makers on the applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. MS&Co also participates in exchange-sponsored listed option payment for order flow programs under which MS&Co may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates, including from exchanges in which MSSB's parent company Morgan Stanley or another affiliated entity may have a financial interest. These U.S. options exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations.

MS&Co. receives rebates and pays fees for the routing of customer orders in exchange listed options to option exchanges. When the rebates received exceed the fees paid to such venue, MS&Co. receives benefits from the trading activity. In addition, certain exchanges offer volume-based tiered rates based on the type of order routed. MS&Co receives incremental pricing benefits from exchange offers volume-based tiered rates. The volume tiers are published in the fee schedule by the exchange. Exchange rebates provided and fees charged to MS&Co for MSSB customer executions by the U.S. options exchanges are not passed through to MSSB or its customers. However, MSSB is an affiliated company of MS&Co, which is a market maker on various U.S. options exchanges and MS&Co may realize market-making profit may realize market-making from MSSB orders routed to make the fees of tiered pricing program incentive purposes and it is possible that MS&Co executes are routined on a monthly basis with other order flow and the incentives of such tiered pricing programs. As a result of MSSB's corporate affiliation with MS&Co. MSSB may share indirectly in any such profits (whether from market-making, from pricing programs, or otherwise) generated by MS&Co.

Citadel Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed options orders in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel. Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Citadel. In addition, as more fully described below, Citadel executes MSSB customer orders on U.S. listed options exchanges from which Citadel may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their brokerage account based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's 0 based commission policy, pursuant to which customers generally do not pay base commission or order handling and execution of Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's dose not charge commission on these Self-Directed Channel orders, the Firm seeks to be com

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Citadel in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Citadel for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions. Furthermore, MSSB and Citadel do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict to an options market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) payment for order flow. An options market maker's (such as Citadel's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel.

Citadel also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. In addition to revenues that Citadel may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. Citadel also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. MSSB does not share directly in any rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Wolverine Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Wolverine Execution Services, LLC ("Wolverine") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). MSSB receives and handles non-directed options orders on a held and not held specified besis through both channels consistent with sud up of best execution, but there are differences in how MSSB is compensated for the services if the price improvement opportunities and trade executions that MSSB customers from Wolverine. Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Wolverine. In addition, as more fully described below, Wolverine executes MSSB customer orders on U.S. listed options exchanges from which Wolverine may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel orders in Self-Directed Channel orders in Self-Directed Channel orders in Self-Directed Channel

Wolverine generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Wolverine in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Wolverine for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Wolverine with respect to Full-Service Channel order executions. Furthermore, MSSB and Wolverine do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Wolverine.

There is a potential conflict to an options market maker such as Wolverine both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as Wolverine can (i) forgo a portion of such anticipated profit to pay for order flow; or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as Wolverine's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement or order flow terms applicable to Wolverine.

Wolverine also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. In addition to revenues that Wolverine may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Wolverine to route higher percentages of MSSB customer orders to particular venues over others, subject to Wolverine's independent order routing and best execution obligations. Wolverine also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. MSSB does not share directly in any rebates Wolverine receives for executions of MSSB customer orders, although Wolverine could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Global Execution Brokers LP:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Global Execution Brokers, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates) do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders. Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for such order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Citadel. While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE from Morgan Stanley Self-Directed Channel orders routed by ETS are available at https://us.etrade.com/l/quarterly-order-routing-report. MSSB does not route Full-Service Channel options orders to G1X.

G1X generates revenue from executing or facilitating the execution of MSSB Self-Directed Channel customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from G1X (based upon the consideration G1X receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from G1X for index options executions on Self-Directed Channel orders or for orders of customers, which are orders of sustomers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, MSSB does not route Full-Service Channel customer orders to G1X. Furthermore, MSSB and G1X do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;

C. for volume-based tiered payment schedules; or

D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict to an options market maker such as G1X both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as G1X can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other categories, with the risk of overallocation to market maker profits at the expense of providing price improvement or MSSB customer orders mitigated by market maker competition for order flow (as measured by the amount of price improvement provided), under the same general payment for order flow terms applicable to G1X.

G1X also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, G1X can earn a profit from such market-making executions. In addition to revenues that G1X may collect for executing or facilitating the execution of Self-Directed Channel customer orders, G1X may also receive remuneration from the U.S. options exchanges to which it routes or directs Self-Directed Channel customer orders in the form of rebates. These U.S. options exchange rebates payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligation. Exchange rebates provided to G1X for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although G1X could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Dash/IMC Financial Markets:

Morgan Stanley Smith Barney LLC ("MSSB") routes U.S.-listed options orders to Dash Financial Technologies, LLC ("Dash") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel" ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokemage or advised accounts and the generate and enter orders for such accounts, including the services of an MSSB Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their MSSB accounties that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Dash. While nearly all E*TRADE from Morgan Stanley Self-Directed Channel customers are customers of MSSB stalling Q1 2023. The tables above reflect Self-Directed Channel orders routed by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report. MSSB does not route Full-Service Channel options orders to Dash.

Dash generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Dash (based upon the consideration Dash receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Dash for index options executions on Self-Directed Channel orders or for orders of Professional Customers, which are orders of outstomers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not route Full-Service Channel customer orders to Dash. Furthermore, MSSB and Dash do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;

C. for volume-based tiered payment schedules; or

D. that require MSSB to route any orders or a minimum number of orders to Dash.

In connection with Dash's handling of MSSB retail equity option orders and solely with respect to Self-Directed Channel orders, Dash has arrangements with multiple, unaffiliated liquidity providers, including IMC Financial Markets, designed to facilitate liquidity provision and price improvement opportunities. Pursuant to these arrangements, Dash routes MSSB Self-Directed Channel options orders to exchanges and may preference the liquidity providers on such applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. The liquidity providers provide Dash with payment in connection with Dash's routing of MSSB Self-Directed Channel options orders, including through reciprocal order flow arrangements between Dash and such liquidity provider and/or payment per contract to Dash in return for Self-Directed Channel options orders that Dash routes or directs. Dash provides payment to MSSB on such Self-Directed Channel options orders to Dash or receive payment from Dash with respect to Full-Service Channel options order executions.

There is a potential conflict to Dash and/or the liquidity provider to which Dash routes orders both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the liquidity provider seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, the liquidity provider can (i) forgo a portion of such anticipated profit to pay Dash (and for Dash, in turn, to pay MSSB) for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. The liquidity provider's anticipated profit and not provide (or provide less) payment for order flow. The liquidity provider's anticipated profit and not provide (or provide less) payment for order flow. The liquidity provider's anticipated profit and not provide (or provide less) payment for order flow. The liquidity provider can also adjust the amount of profit that the liquidity provider shares with Dash. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Dash.

Dash also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, Dash can earn a profit from such market-making executions. In addition to revenues that Dash may collect for executing or facilitating the execution of Self-Directed Channel customer orders, Dash may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Dash to route higher percentages of MSSB customer orders to particular venues over others, subject to Dash's independent order routing and best execution obligations. MSSB does not share directly in any rebates Dash receives for executions of MSSB customer orders, although Dash could potentially use these rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Citigroup Global Markets Inc.:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Citigroup Global Markets Inc. ("Citigroup") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from accounts and the generation of orders from account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. MSSB does not route Self-Directed Channel customer options orders to Citigroup and the tables above reflect Full-Service Channel order executions only. For clarity, MSSB does not route Self-Directed Channel option order executions and MSSB does not route Self-Directed Channel option order executions and MSSB does not route Self-Directed Channel option order accounts have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citigroup.

Citigroup may receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Citigroup to route higher percentages of MSSB customer orders to particular venues over others, subject to Citigroup's independent order routing and best execution obligation. Exchange rebates provided to Citigroup for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although Citigroup's receipt of such rebates could potentially be used to provide price improvement to MSSB customers.

March 2023

S&P 500 Stocks

Summary

	Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders	
I	100.00	94.78	0.46	3.26	1.50	

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	91.04	92.50	67.48	63.45	65.68	65.09	0.0047	-311.20	-0.4376	24,613.68	26.0466	-7,968.68	-4.3088
CITADEL SECURITIES LLC	4.49	3.61	14.97	18.02	27.94	76.68	19.9995	10.77	19.9963	14.43	30.9923	35.69	19.7030
Two Sigma Securities, LLC	3.41	2.87	14.57	16.57	5.39	5.10	16.0744	1.42	19.9158	13.97	29.2605	4.12	19.0736
Virtu Americas, LLC	0.81	0.81	1.69	0.89	0.55	53.51	0.3403	7.60	1.4487	15.52	3.5122	72.63	8.3235
G1 Execution Services, LLC	0.20	0.18	0.61	0.60	0.29	21.84	13.6679	2.24	18.6047	13.91	28.8051	2.68	19.9851
Jane Street Capital	0.03	0.02	0.43	0.14	0.05	39.05	20.0000	3.07	20.0000	7.96	31.0000	0.70	19.8870
UBS Securities, LLC	0.01	0.01	0.20	0.13	0.10	12.22	20.0000	6.91	20.0000	2.65	30.4937	3.30	20.0000
Cboe EDGX Exchange, Inc.	0.01	0.00	0.06	0.15	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Members Exchange (MEMX)	0.00	0.00	0.00	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MS&Co"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel receive servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and effect of the services of the Self-Directed Channel orders from commissions on their brokerage account orders and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in MMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel customers of mSSB during Q1 2023. Quarterly order routing-statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal or firstless principal basis and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or principal or risk principal or risk principal assis and may receive compensation for such executions. In addition, MS&Co routes orders to allow the customer orders of execution diquidity and to offer customer orders of principal or risk principa

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Cboe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel orders to MS&Co for execution directly. Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co exchanges repeated channel customer order execution on those exchanges, depending on whether the order added to or subtracted from liquidity on the exchange, which are passed through to MSSB at the rates and amounts reflected in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for on such orders from Citadel. In addition, as more fully described below, Citadel may receive payment in the form of rebates or orders to an exchange or other market centers for execution, including to market centers from which Citadel may receive payment in the form of rebates when the form of rebates or their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel outstomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders include details on Full-Service Channel orders) include only those Self-Directed Channel orders outled by MSSB. Quarterly order-routing-report.

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide price improvement; must be allocated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Citadel's and increased allocation to any one sub-categories, such that an increased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel. A market maker such as Citadel executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders include details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers generally do not pay base counts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, including G1X. While nearly all Self-Directed Channel orders of MSSB's a limited number of Self-Directed Channel customers were customers of MSSB during Q1 2023. The Self-Directed Channel orders routed by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit must be allocation to provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories in the same general above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one flow from G1X on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or better the customer orders and the customer orders are the customer orders and the customer orders are the cust

Jane Street Capital:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Jane Street Capital ("Jane Street") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts orders and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts orders and orders accounts. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of that their proving and execution of the self-Directed Channel orders, MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Jane Street. While nearly all Self-Directed Channel customers are customers of MSSB does not charge commissions on these Self-Directed Channel customers were customers of MSSB during Q1 2023. The tables above reflect Self-Directed Channel orders routed by MSSB only. Quarterly order-routing-report. MSSB does not route Full-Service Channel NMS equiti

Jane Street generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Jane Street in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Jane Street for NMS equity executions priced channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Channel NMS equity orders to Jane Street.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Jane Street to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Jane Street, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Jane Street.

There is a potential conflict for a market maker such as Jane Street both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street can (i) forgo a portion of such anticipated profit to pay for order flow. A market maker (such as Jane Street's) anticipated profit to pay for order flow, a market maker's (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit and not provide (or provide (or provide (or provide (or provide less) price improvement or not provide (or provide less) price improvement or not provide (or provide (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit to pay for order flow and larger portion of such anticipated profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for order flow and larger profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for ord

In addition to revenues that Jane Street may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to Jane Street, Jane Street also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Jane Street to route higher percentages of MSSB customer orders to particular venues over others, subject to Jane Street's independent order routing and best execution obligations. Exchange rebates provided to Jane Street for MSSB customer executions are not passed through to MSSB or its customers, although Jane Street could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

UBS Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to UBS Securities, LLC ("UBS") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive servicing, and administration of their Mess brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//what-we-offer/pricing-and-rates. Because MSSB does not charge commissions on these Self-Directed Channel orders, including UBS. While nearly all Self-Directed Channel orders for Self-Directed Channel orders of Self-Directed Channel orders on touted by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com//loquarterly-order-routing-report. MSSB does not route full-Service Channel NMS equity orders to UBS.

UBS generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from UBS in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB does not receive payment from UBS for NMS equity executions priced below \$1.00 per share. MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Full-Service Channel customer orders to UBS.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow UBS to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and UBS, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to UBS.

There is a potential conflict for a market maker such as UBS both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as UBS can (i) forgo a portion of such anticipated profit to provide profic improvement; (ii) forgo a portion of such anticipated profit to provide profit may be allocated profit and not provide (or provide less) payment for order flow. A market maker's (such as UBS's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to UBS.

In addition to revenues that UBS may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to UBS, UBS also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize UBS to route higher percentaleges of MSSB customer orders to particular venues over others, subject to UBS's independent order routing and best execution self-Directed Channel orders. Exchange rebates provided to UBS for MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

Cboe EDGX Exchange, Inc.:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Cboe EDGX Exchange, Inc. to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wellth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel orders for Interventional execution of Self-Directed Channel orders for Interventional Execution of Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through payment for order flow from MSSB's equity market makers and, as described more in further deviated below, from rebates on executions of Self-Directed Channel orders that MSSB routes to certain U.S. securities exchanges directly and indirectly through its affiliate Morgan Stanley & Co., LLC ("MS&Co"), including Self-Directed Channel orders that MSSB routes to EDGX through MS&Co. While MSSB determines where to route customers of MSSB's affiliate broker-dealer, E**TRADE Securities LLC ("ETS") and not MSSB not make to route higher percentages of MSSB's customer orders to particular venues orders to particular

MS&Co either pays a fee or receives a rebate on behalf of MSSB for each Self-Directed Channel customer order execution on EDGX, depending on whether the order added to or subtracted from liquidity on the exchange. For clarity, MSSB pays such fee or receives such rebate, as applicable, for executions of Self-Directed Channel orders that MSSB routes that MSSB routes that MSSB contests that MSSB may share indirectly in any such profits realized from executions on EDGX. As a result of the corporate affiliation between MSSB, MSSB may share indirectly in any such profits generated by MSSB. The fees and rebates referenced above are subject to volume pricing. To the extent that MSSB metals the execution volume thresholds necessary to qualify for preferred pricing under EDGX's Fees Schedule in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because EDGX offers higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of MSSB customer orders to EDGX through MS&Co rather than another venue in order to reach a higher tier. MSSB and EDGX, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules beyond the tiered volume model set forth in the EDGX Fees Schedule as described above; or
- D. that require MSSB to route any orders or a minimum number of orders to EDGX.

The fees MSSB pays and rebates MSSB receives from EDGX through MS&Co for NMS equity executions are determined based on EDGX's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by EDGX in the EDGX Fees Schedule, available at http://www.cboe.com/us/equities/membership/fee_schedule/edgx/. Please note that EDGX's publicly available Fees Schedule URL link and applicable rates may change without notione. EDGX's standard rebate rates were that EDGX's standard rebate rates were than 10,000 are fixed to receive the securitions priced at \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for execution priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for executions priced at \$1.00 per share for executions priced below \$1

MSSB also participates in EDGX's retail order priority program under which eligible retail orders receive priority ahead of other available interest at a given price level or other enhanced execution benefits. MSSB reviews customers' activity on a periodic basis to determine program eligibility and reserves the right to choose whether to participate in the EDGX retail order priority program. MSSB orders routed to EDGX through MS&Co will be combined with any other order flow that MS&Co routes to EDGX for the purpose of determining the applicable pricing under EDGX's tiered pricing model described above. It is possible that MS&Co could generate additional profit as a result of the combination of such order flow and the incentives of such tiered pricing program including on behalf of MSSB. Further disclosures regarding routing of orders through MS&Co are provided in the above Public Order Routing Report disclosures for MS&Co.

Members Exchange (MEMX):

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to MEMX LLC ("MEMX") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB observage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS equities orders (subject to disclosed exceptions described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through payment for order flow from MSSB's equity market makers and, as described in further detail below, from rebates on executions of Self-Directed Channel orders that MSSB routes to certain U.S. securities exchanges directly and indirectly through its affiliate Morgan Stanley & Co., LLC ("MS&Co"), including Self-Directed Channel orders that MSSB routes to MSBB routes to MSBB or oute fligher percentages of MSSB customer orders to particular venues over others. While nearly all Self-Directed Channel orders routed by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com

MS&C either pays a fee or receives a rebate on behalf of MSSB for each Self-Directed Channel customer order execution on MEMX, depending on whether the order added to or subtracted from liquidity on the exchange. For clarity, MSSB pays such fee or receives such rebate, as applicable, for executions of Self-Directed Channel orders that MSSB routes to MEMX indirectly through MS&Co may also benefit indirectly from profits realized from executions of MEMX. As a result of the corporate affiliation between MS&Co and MSSB, MSSB may share indirectly in any such profits generated by MS&Co. The fees and rebates referenced above are subject to volume pricing. To the extent that MSSB mester the execution volume thresholds necessary to qualify for preferred pricing under MEMX's Fees Schedule in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because MEMX offers higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of MSSB customer orders to MEMX through MS&Co rather than another venue in order to reach a higher tier. MSSB and MEMX, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules beyond the tiered volume model set forth in the MEMX Fees Schedule as described above; or
- D. that require MSSB to route any orders or a minimum number of orders to MEMX.

The fees MSSB pays and rebates MSSB receives from MEMX through MS&Co for NMS equity executions are determined based on MEMX's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by MEMX in the MEMX Fees Schedule. Schedule available in thitp://info.memxtrading.com/fee-schedule/. Please note that MEMX's publicly available rates may change without notice. MEMX's human thitp://info.memxtrading.com/fee-schedule/. Please note that MEMX's publicly available rates may change without notice. MEMX's to the MEMX for execution directly prough MS&Co other than as described above.

MSSB is an affiliated company of Strategic Investments I, Inc., both of which are wholly owned subsidiaries of Morgan Stanley and investor-shareholders of MEMX. Accordingly, MSSB, both directly and indirectly through its parent company Morgan Stanley and/or its affiliates may share in profits realized by MEMX, which could, in theory, incentivize MSSB to route a higher percentages of Self-Directed Channel orders to MEMX over other execution venues. MSSB orders routed to MEMX through MS&Co will be combined with any other order flow that MS&Co routes to MEMX for the purpose of determining the applicable pricing under MEMX's thered pricing program including on behalf of MSSB. Further disclosures regarding routing of orders through MS&Co are provided in the above Public Order Routing Report disclosures for MS&Co.

March 2023

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders		
100.00	81.14	0.89	15.38	2.59		

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	91.25	92.25	73.55	91.07	67.00	263.29	0.0070	-1,497.78	-0.1986	99,489.22	16.7815	-13,176.01	-3.8251
CITADEL SECURITIES LLC	4.50	3.73	12.25	4.31	27.34	382.98	13.0056	109.63	4.5674	152.08	19.1916	46.83	7.6946
Two Sigma Securities, LLC	3.16	2.98	10.47	3.46	4.45	36.24	13.7115	73.24	13.4153	46.08	2.2639	2.96	16.2955
Virtu Americas, LLC	0.79	0.80	2.02	0.68	0.69	299.62	0.9107	98.60	1.9581	69.36	2.1218	8.47	0.6279
G1 Execution Services, LLC	0.22	0.19	0.81	0.34	0.35	213.56	17.8886	26.29	2.9551	120.40	4.6208	11.38	1.4810
Jane Street Capital	0.05	0.04	0.64	0.04	0.09	117.67	13.0455	89.21	10.2279	30.22	13.3828	2.28	3.1851
UBS Securities, LLC	0.02	0.01	0.22	0.04	0.07	30.10	18.3032	29.90	9.8712	21.33	4.1517	7.21	14.9465
Cboe EDGX Exchange, Inc.	0.01	0.00	0.02	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Members Exchange (MEMX)	0.00	0.00	0.01	0.02	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC. ("MS&Co"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel receive servicing, and administration of their MSSB brokerage or advised accounts and the generation of their MSSB brokerage or advised accounts. Among other things, MSSB freeeives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders, apart from the U.S. securities exchange rebates described in further detail below. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//vjeurterly-order-routing-report.

Solely with respect to Full-Service Channel orders, MSSB routes NMS equity orders to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. Except for a limited number of directed Full-Service Channel equity orders which MS&Co. receives from MSSB and routes in accordance with customer instructions, all Full-Service Channel equity orders are routed by MSSB to MS&Co. for execution. MS&Co executes MSSB Full-Service Channel customer equity orders on an agency, principal passis and may receive compensation for such executions. In connection with certain of these executions, MS&Co may internalize customer order flow to allow the customer to benefit from various sources of liquidity and to offer customer orders opportunities or provement. Such internalize customer orders to allow the customer orders to liquidity and to offer customer orders opportunities for management. Such internalize customer orders to allow the customer orders to liquidity and to offer customer orders of liquidity of their books and charge explicit fees for orders that extract liquidity from their books. MS&Co receives remuneration in the form of rebates from U.S. securities exchanges to which it routes or directs MSSB customer orders. These U.S. exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations. MSSB may also receive incremental pricing benefits from U.S securities exchanges and/or electronic communication networks if certain volume thresholds are met. The net of U.S. escurities exchange fees paid by, and rebates provided to, MSSB Full-Service Channel customer executions are passed through to MSSB. As such, these rebate payments could theoretically incentivize MSSB to route a higher percentage of customer orders to MSSBCo, subject to MSSBS independent order routing and best execution obligations. Additionally, affiliates of MSSB maintain

Apart from a limited number of Self-Directed Channel directed equity orders, which MS&Co. receives from MSSB or its affiliate broker-dealer E*TRADE Securities, LLC with customer instructions to route to directly to certain U.S. securities exchanges and a limited number of non-directed Self-Directed Channel equity orders that MSSB routes to Choe EDGX Exchange, Inc. and the Members Exchange for execution through MS&Co., MSSB does not route Self-Directed Channel orders to MS&Co for execution directly. Self-Directed Channel equity orders that MSSB routes to the exchange for the purpose of determining the applicable pricing and rebates under exchange tiered pricing models. MS&Co will be combined with any other order flow that MSS&Co routes to the exchange tiered pricing models. MS&Co meets the exchange tiered pricing model in the applicable relationship disclosures and tables in this report. To the extent that MS&Co meets the execution volume thresholds necessary to qualify for preferred pricing under an exchange tiered pricing model in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because exchanges may offer higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of Self-Directed Channel customer orders to a U.S. securities exchange to help MS&Co reach higher volume pricing tiers.

CITADEL SECURITIES LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Citadel.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for overder flow on such orders from Citadel. In addition, as more fully described below, Citadel may send certain MSSB customer orders to an exchange or other market center for execution, including to market centers from which Citadel may receive payment in the form of rebates. Converge accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSPs \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Citadel. While nearly all Self-Directed Channel orders outling Citadel. While nearly all Self-Directed Channel orders outled by MSSB, a limited number of Self-Directed Channel orders or toutled by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Citadel, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Citadel in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share or more. MSSB does not receive payment from Citadel for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Citadel to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Citadel, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict for a market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Citadel can (i) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide less) price improvement or not provide (or provide less) payment for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel's) anticipated profit to pay for order flow. A market maker such as Citadel such

In addition to revenues that Citadel may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Citadel, Citadel also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Two Sigma Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Two Sigma Securities, LLC ("Two Sigma") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service both channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Two Sigma.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for bot scripts on such order flow on such order from Two Sigma. In addition, as more fully described below, Two Sigma may send certain MSSB customer orders to an exchange or other market centers from which Two Sigma may receive payment in the form of free execution, including to market centers from which Two Sigma may receive payment in the form of free executions of the Self-Directed Channel orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's 50 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Two Sigma. While nearly all Self-Directed Channel oustomers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders souted by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

Two Sigma generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Two Sigma, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Two Sigma in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Two Sigma for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Two Sigma with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Two Sigma to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Two Sigma, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Two Sigma.

There is a potential conflict for a market maker such as Two Sigma both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker such as Two Sigma can (i) forgo a portion of such anticipated profit to provide profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Two Sigma's) not provide profit in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Two Sigma. A market maker such as Two Sigma executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Two Sigma may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Two Sigma, Two Sigma also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Two Sigma to route higher percentages of MSSB customer orders to particular venues over others, subject to Two Sigma's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Two Sigma receives for executions of MSSB customer orders, although Two Sigma could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Virtu Americas, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Virtu Americas, LLC ("Virtu") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from Virtu.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Virtu. In addition, as more fully described below, Virtu may send certain MSSB customer orders to an exchange or other market centers from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders from which Virtu may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission points or order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Virtu. While nearly all Self-Directed Channel customers were customers of MSSB's affiniate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel order statistics reflected Channel orders include details on Full-Service Channel orders include only those Self-Directed Channel orders order fourting tatistics for ETS are available at https://us.etrade.com//quarterly-order-routing-report.

Virtu generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to Virtu, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Virtu in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Virtu for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from Virtu with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Virtu to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Virtu, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Virtu.

There is a potential conflict for a market maker such as Virtu both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Virtu can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement; (iii) forgo a portion of such anticipated profit and not provide (or provide less) payment for order flow. A market maker such as Virtus, anticipated profit in a decreased allocation to one or more of the other sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Virtu. A market maker such as Virtu executing a Full-Service Channel order does not have to allocate any of its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from Virtu on these order executions and instead is compensated directly by MSSB's customers as described above.

In addition to revenues that Virtu may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to Virtu, Virtu also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Virtu to route higher percentages of MSSB customer orders to particular venues over others, subject to Virtu's independent order routing and best execution obligations. MSSB does not share directly in any such rebates Virtu receives for executions of MSSB customer orders, although Virtu could potentially use such rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

G1 Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to G1 Executions Services, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). MSSB receives and handles non-directed customer orders in NMS equity securities on a held had not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from G1X.

Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel executions from commissions on customers' brokerage account order executions and fees on their advised accounts. As a receive payment for order flow on such orders from G1X. In addition, as more fully described below, G1X may send certain MSSB customer orders to an exchange or other market centers from which G1X may receive payment in the form of rebates. Conversely, customers generally do not pay base counts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commissions on these Self-Directed Channel orders, including G1X. While nearly all Self-Directed Channel orders of MSSB's a limited number of Self-Directed Channel customers were customers of MSSB during Q1 2023. The Self-Directed Channel orders routed by MSSB. Quarterly order routing statistics for ETS are available at https://us.etrade.com/l/quarterly-order-routing-report.

G1X generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for routing such orders to G1X, and solely with respect to Self-Directed Channel orders, MSSB receives payments from G1X in the amounts outlined in the above Public Order Routing Report disclosures (i.e. payment for order flow), calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from G1X for NMS equity executions on Self-Directed Channel orders priced below \$1.00 per share. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, and as indicated above, MSSB does not receive payment from G1X with respect to Full-Service Channel order executions.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow G1X to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and G1X, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict for a market maker such as G1X both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as G1X can (i) forgo a portion of such anticipated profit to provide profice improvement of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit must be allocation to not provide (or provide less) payment for order flow. A market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories in the anticipated profit must be allocated above, including the risk of overallocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to G1X. A market maker such as G1X executing a Full-Service Channel order does not have to allocate any of its anticipated profit in connection with such order to the payment for order flow subcategory (as it would with Self-Directed Channel orders) and is therefore able to allocate its anticipated profit to one or more other sub-categories (that is, to provide more price improvement or retain more anticipated profit or a mixture of the two). These same potential conflicts do not apply to Full-Service Channel customer order executions because MSSB does not receive payment for order flow from G1X on these order executions and instead is compensated directly by MSSB's customers as described above

In addition to revenues that G1X may collect for executing or facilitating the execution of customer orders (both Full-Service Channel and Self-Directed Channel customer orders) that MSSB routes to G1X, G1X also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligations. MSSB does not share directly in any such rebates G1X receives for executions of MSSB customer orders, although G1X could potentially use such rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Jane Street Capital:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Jane Street Capital ("Jane Street") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts orders and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage accounts orders and orders accounts. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of that their proving and execution of the self-Directed Channel orders, MSSB does not charge commissions on these Self-Directed Channel orders, MSSB seeks to be compensated, among other ways, through the receipt of payment for order flow from equity securities market makers, including Jane Street. While nearly all Self-Directed Channel customers are customers of MSSB does not charge commissions on these Self-Directed Channel customers were customers of MSSB during Q1 2023. The tables above reflect Self-Directed Channel orders routed by MSSB only. Quarterly order-routing-report. MSSB does not route Full-Service Channel NMS equiti

Jane Street generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from Jane Street in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. MSSB does not receive payment from Jane Street for NMS equity executions priced channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Channel NMS equity orders to Jane Street.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow Jane Street to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and Jane Street, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Jane Street.

There is a potential conflict for a market maker such as Jane Street both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street can (i) forgo a portion of such anticipated profit to pay for order flow. A market maker (such as Jane Street's) anticipated profit to pay for order flow, a market maker's (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit and not provide (or provide (or provide (or provide (or provide less) price improvement or not provide (or provide less) price improvement or not provide (or provide (such as Jane Street's) anticipated profit to pay for order flow. A market maker's (such as Jane Street's) anticipated profit to pay for order flow and larger portion of such anticipated profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for order flow and larger profit to pay for order flow and larger provide (or provide (such as Jane Street) and larger profit to pay for order flow and larger profit to pay for ord

In addition to revenues that Jane Street may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to Jane Street, Jane Street also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize Jane Street to route higher percentages of MSSB customer orders to particular venues over others, subject to Jane Street's independent order routing and best execution obligations. Exchange rebates provided to Jane Street for MSSB customer executions are not passed through to MSSB or its customers, although Jane Street could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

UBS Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to UBS Securities, LLC ("UBS") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive servicing, and administration of their Mess brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. As a result, MSSB does not seek or receive payment for order flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS equities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commissions for order handling and execution of their Self-Directed Channel NMS equities orders (subject to disclosed exceptions as described more fully at https://us.etrade.com//what-we-offer/pricing-and-rates. Because MSSB does not charge commissions on these Self-Directed Channel orders, including UBS. While nearly all Self-Directed Channel orders for Self-Directed Channel orders of Self-Directed Channel orders on touted by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com//loquarterly-order-routing-report. MSSB does not route full-Service Channel NMS equity orders to UBS.

UBS generates revenue from executing or facilitating the execution of Self-Directed Channel customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel orders, MSSB receives payments from UBS in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.002 per share for non-directed, NMS equity market and marketable limit order executions priced at \$1.00 per share or more and \$0.0031 per share for non-directed, NMS equity non-marketable limit order executions priced at \$1.00 per share or more. Apart from certain Self-Directed Channel orders routed to Morgan Stanley & Co., LLC as disclosed above, MSSB does not receive payment from UBS for NMS equity executions priced below \$1.00 per share. MSSB only routes Self-Directed Channel NMS equity orders to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rates of payment. For clarity, MSSB does not route Full-Service Channel customer orders to UBS.

To take advantage of rules adopted by the U.S. securities exchanges that allow retail orders to be eligible for certain potential benefits, including additional price improvement from retail liquidity programs and higher queue priority from retail attestation programs, and to allow UBS to access such potential benefits for Self-Directed Channel NMS equity orders, MSSB marks applicable orders as retail orders on an order-by-order basis. MSSB and UBS, however, do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to UBS.

There is a potential conflict for a market maker such as UBS both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Self-Directed Channel customer orders. Accordingly, from such anticipated profit, a market maker such as UBS can (i) forgo a portion of such anticipated profit to provide profic improvement; (ii) forgo a portion of such anticipated profit to provide profit may be allocated profit and not provide (or provide less) payment for order flow. A market maker's (such as UBS's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel customer orders, is informed and mitigated by competition for order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to UBS.

In addition to revenues that UBS may collect for executing or facilitating the execution of Self-Directed Channel customer orders that MSSB routes to UBS, UBS also receives remuneration from U.S. securities exchanges to which it routes or directs MSSB customer orders in the form of rebates. These U.S. exchange rebate payments could, in theory, incentivize UBS to route higher percentaleges of MSSB customer orders to particular venues over others, subject to UBS's independent order routing and best execution self-Directed Channel orders. Exchange rebates provided to UBS for MSSB customers, order flow payments to MSSB with respect Self-Directed Channel orders, or both.

Cboe EDGX Exchange, Inc.:

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to Cboe EDGX Exchange, Inc. to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wellth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel orders for Interventional execution of Self-Directed Channel orders for Interventional Execution of Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through payment for order flow from MSSB's equity market makers and, as described more in further deviated below, from rebates on executions of Self-Directed Channel orders that MSSB routes to certain U.S. securities exchanges directly and indirectly through its affiliate Morgan Stanley & Co., LLC ("MS&Co"), including Self-Directed Channel orders that MSSB routes to EDGX through MS&Co. While MSSB determines where to route customers of MSSB's affiliate broker-dealer, E**TRADE Securities LLC ("ETS") and not MSSB not make to route higher percentages of MSSB's customer orders to particular venues orders to particular

MS&Co either pays a fee or receives a rebate on behalf of MSSB for each Self-Directed Channel customer order execution on EDGX, depending on whether the order added to or subtracted from liquidity on the exchange. For clarity, MSSB pays such fee or receives such rebate, as applicable, for executions of Self-Directed Channel orders that MSSB routes that MSSB routes that MSSB contests that MSSB may share indirectly in any such profits realized from executions on EDGX. As a result of the corporate affiliation between MSSB, MSSB may share indirectly in any such profits generated by MSSB. The fees and rebates referenced above are subject to volume pricing. To the extent that MSSB metals the execution volume thresholds necessary to qualify for preferred pricing under EDGX's Fees Schedule in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because EDGX offers higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of MSSB customer orders to EDGX through MS&Co rather than another venue in order to reach a higher tier. MSSB and EDGX, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules beyond the tiered volume model set forth in the EDGX Fees Schedule as described above; or
- D. that require MSSB to route any orders or a minimum number of orders to EDGX.

The fees MSSB pays and rebates MSSB receives from EDGX through MS&Co for NMS equity executions are determined based on EDGX's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by EDGX in the EDGX Fees Schedule, available at http://www.cboe.com/us/equities/membership/fee_schedule/edgx/. Please note that EDGX's publicly available Fees Schedule URL link and applicable rates may change without notione. EDGX's standard rebate rates were that EDGX's standard rebate rates were than 10,000 are fixed to receive the securitions priced at \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for execution priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for more and \$0.0003 for executions priced below \$1.00 per share for executions priced at \$1.00 per share for executions priced below \$1

MSSB also participates in EDGX's retail order priority program under which eligible retail orders receive priority ahead of other available interest at a given price level or other enhanced execution benefits. MSSB reviews customers' activity on a periodic basis to determine program eligibility and reserves the right to choose whether to participate in the EDGX retail order priority program. MSSB orders routed to EDGX through MS&Co will be combined with any other order flow that MS&Co routes to EDGX for the purpose of determining the applicable pricing under EDGX's tiered pricing model described above. It is possible that MS&Co could generate additional profit as a result of the combination of such order flow and the incentives of such tiered pricing program including on behalf of MSSB. Further disclosures regarding routing of orders through MS&Co are provided in the above Public Order Routing Report disclosures for MS&Co.

Members Exchange (MEMX):

Morgan Stanley Smith Barney LLC ("MSSB") routes NMS equity orders to MEMX LLC ("MEMX") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB observage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders for NMS equity securities are subject to MSSB's \$0 commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS equities orders (subject to disclosed exceptions described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through payment for order flow from MSSB's equity market makers and, as described in further detail below, from rebates on executions of Self-Directed Channel orders that MSSB routes to certain U.S. securities exchanges directly and indirectly through its affiliate Morgan Stanley & Co., LLC ("MS&Co"), including Self-Directed Channel orders that MSSB routes to MSBB routes to MSBB or oute fligher percentages of MSSB customer orders to particular venues over others. While nearly all Self-Directed Channel orders routed by MSSB only. Quarterly order routing statistics for ETS are available at https://us.etrade.com

MS&C either pays a fee or receives a rebate on behalf of MSSB for each Self-Directed Channel customer order execution on MEMX, depending on whether the order added to or subtracted from liquidity on the exchange. For clarity, MSSB pays such fee or receives such rebate, as applicable, for executions of Self-Directed Channel orders that MSSB routes to MEMX indirectly through MS&Co may also benefit indirectly from profits realized from executions of MEMX. As a result of the corporate affiliation between MS&Co and MSSB, MSSB may share indirectly in any such profits generated by MS&Co. The fees and rebates referenced above are subject to volume pricing. To the extent that MSSB mester the execution volume thresholds necessary to qualify for preferred pricing under MEMX's Fees Schedule in a given month, increased (rather than standard) rebate rates and decreased (rather than standard) fees will apply. Because MEMX offers higher rebates and lower fees based on a tiered volume model, there is a potential conflict in that such rebates and fees could, in theory, incentivize MSSB to route a higher percentage of MSSB customer orders to MEMX through MS&Co rather than another venue in order to reach a higher tier. MSSB and MEMX, however, do not have any arrangements:

A. that require MSSB to meet certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules beyond the tiered volume model set forth in the MEMX Fees Schedule as described above; or
- D. that require MSSB to route any orders or a minimum number of orders to MEMX.

The fees MSSB pays and rebates MSSB receives from MEMX through MS&Co for NMS equity executions are determined based on MEMX's tiered volume model. Schedules delineating orders eligible for such rebates and the applicable rates are published publicly by MEMX in the MEMX Fees Schedule. Schedule available in thitp://info.memxtrading.com/fee-schedule/. Please note that MEMX's publicly available rates may change without notice. MEMX's human thitp://info.memxtrading.com/fee-schedule/. Please note that MEMX's publicly available rates may change without notice. MEMX's to the MEMX for execution directly prough MS&Co other than as described above.

MSSB is an affiliated company of Strategic Investments I, Inc., both of which are wholly owned subsidiaries of Morgan Stanley and investor-shareholders of MEMX. Accordingly, MSSB, both directly and indirectly through its parent company Morgan Stanley and/or its affiliates may share in profits realized by MEMX, which could, in theory, incentivize MSSB to route a higher percentages of Self-Directed Channel orders to MEMX over other execution venues. MSSB orders routed to MEMX through MS&Co will be combined with any other order flow that MS&Co routes to MEMX for the purpose of determining the applicable pricing under MEMX's thered pricing program including on behalf of MSSB. Further disclosures regarding routing of orders through MS&Co are provided in the above Public Order Routing Report disclosures for MS&Co.

March 2023

Options

Summary

	Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders		
I	100.00	39.38	7.23	38.17	15.22		

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Morgan Stanley & Co., LLC	83.44	83.41	83.69	82.62	85.44	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities, LLC	12.17	12.26	11.87	12.67	10.84	198.24	48.0000	127.68	48.0000	261.12	48.0000	37.92	48.0000
Wolverine Execution Services, LLC	3.07	3.17	3.17	3.16	2.53	51.36	45.8571	50.88	47.1111	56.64	46.0488	9.60	43.6364
Global Execution Brokers LP	1.19	1.11	1.22	1.41	0.83	113.28	1.7428	100.32	2.6674	179.38	3.6864	8.16	0.2665
Dash/IMC Financial Markets	0.12	0.04	0.06	0.12	0.36	52.32	48.0000	42.24	48.0000	66.72	48.0000	135.84	48.0000
Jane Street Execution Services Llc	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Morgan Stanley & Co., LLC:

Morgan Stanley Smith Barney LLC ("MSSB") is an affiliate of Morgan Stanley & Co., LLC ("MSSCo"). Both MSSB and MS&Co are registered broker-dealers. MSSB operates two primary service channels for its wealth management customers, including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor.

MSSB sends orders in U.S.-listed options to MS&Co to facilitate liquidity provision and price improvement opportunities for its customers. MSSB customer orders in U.S.-listed options that are sent to MS&Co are then routed by MS&Co to a U.S. options exchange to be either crossed or executed against MS&Co interest and/or other liquidity on such exchanges, subject to the principles of best execution. In general, MS&Co generates revenue from executing or facilitating the execution of MSSB customer orders. MSSB does not receive payment from MS&Co for the options orders it routes to MS&Co (i.e. payment for order flow), either for Full-Service Channel options orders or Self-Directed Channel options orders executed by MS&Co and MSSB and MS&Co do not have any arrangements:

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to MS&Co.

In the course of providing liquidity, MS&Co may preference option orders to MS&Co's options market maker or third-party market makers on the applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. MS&Co also participates in exchange-sponsored listed option payment for order flow programs under which MS&Co may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates, including from exchanges in which MSSB's parent company Morgan Stanley or another affiliated entity may have a financial interest. These U.S. options exchange rebate payments could, in theory, incentivize MS&Co to route higher percentages of MSSB customer orders to particular venues over others, subject to MS&Co's independent order routing and best execution obligations.

MS&Co. receives rebates and pays fees for the routing of customer orders in exchange listed options to option exchanges. When the rebates received exceed the fees paid to such venue, MS&Co. receives benefits from the trading activity. In addition, certain exchanges offer volume-based tiered rates based on the type of order routed. MS&Co receives incremental pricing benefits from exchange offers volume-based tiered rates. The volume tiers are published in the fee schedule by the exchange. Exchange rebates provided and fees charged to MS&Co for MSSB customer executions by the U.S. options exchanges are not passed through to MSSB or its customerers. However, MSSB is an affiliated company of MS&Co, which is a market maker on various U.S. options exchanges and MS&Co may realize market-making profits from MSSB orders routed to MS&Co for execution. In addition, MSSB orders that MS&Co executes are combined on a monthly basis with other order flow that MS&Co executes for tiered pricing program incentive purposes and it is possible that MS&Co could generated by MSSB's corporate affiliation with MS&Co, MSSB may share indirectly in any such profits (whether from market-making, from pricing programs, or otherwise) generated by MS&Co.

Citadel Securities, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Citadel Securities LLC ("Citadel") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). MSSB receives and handles non-directed options orders on a held and not held basis through both channels consistent with its duty of best execution, but there are differences in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers receive from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Citadel. In addition, as more fully described below, Citadel executes MSSB customer orders on U.S. listed options exchanges from which Citadel may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their orders had advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's S0 based commission policy, pursuant to which customers generally do not pay base commission or order haddling and execution of Self-Directed Channel orders in NMS securities that are options commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for such order flow from the

Citadel generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Citadel in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Citadel for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel order in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Citadel with respect to Full-Service Channel order executions. Furthermore, MSSB and Citadel do not have any arrangements:

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Citadel.

There is a potential conflict to an options market maker such as Citadel both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as Citadel can (i) forgo a portion of such anticipated profit to provide (or provide less) payment for order flow. An options market maker's (such as Citadel's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three subcategories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Citadel's

Citadel also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. In addition to revenues that Citadel may collect for executing or facilitating the execution of MSSB customer orders, Citadel may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Citadel to route higher percentages of MSSB customer orders to particular venues over others, subject to Citadel's independent order routing and best execution obligations. Citadel also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Citadel can earn a profit from such market-making executions. MSSB does not share directly in any rebates Citadel receives for executions of MSSB customer orders, although Citadel could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Wolverine Execution Services, LLC:

Morgan Stanley Smith Barney LLC ("MSSB") routes orders in NMS securities that are U.S.-listed options to Wolverine Execution Services, LLC ("Wolverine") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel"). MSSB receives and handles non-directed options orders on a held and not held be serviced by the services in how MSSB is compensated for the services it performs, which, as described in detail below, can impact the price improvement opportunities and trade executions that MSSB customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of an MSSB Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for order flow on such orders from Wolverine executes MSSB customer orders from Wolverine may receive payment in the form of rebates. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's S0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders from the options marke

Wolverine generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing, and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Wolverine in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Wolverine for index options executions on Self-Directed Channel orders or for options orders of Professional Customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not receive payment from Wolverine with respect to Full-Service Channel order executions. Furthermore, MSSB and Wolverine do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Wolverine.

There is a potential conflict to an options market maker such as Wolverine both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the options market maker such as Wolverine can (i) forgo a portion of such anticipated profit an options market maker such as Wolverine can (ii) forgo a portion of such anticipated profit to pay for order flow; or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as Wolverine's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other sub-categories. The allocation of resources between the three sub-categories listed above, including the risk of overallocation to market maker profits at the expense of providing price improvement on Self-Directed Channel order flow amongst MSSB's market makers under the same general payment for order flow terms applicable to Wolverine.

Wolverine also acts as options market maker on one or more of the U.S. options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. In addition to revenues that Wolverine may also receive remuneration from the U.S. options exchange rebate payments could, in theory, incentivize Wolverine to route higher percentages of MSSB customer orders to particular venues over others, subject to Wolverine's independent order routing and best execution obligations. Wolverine also acts as options market maker on one or more of the options exchanges on which it can execute an MSSB customer order and, as such, Wolverine can earn a profit from such market-making executions. MSSB does not share directly in any rebates Wolverine receives for executions of MSSB customer orders, although Wolverine could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Global Execution Brokers LP:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Global Execution Brokers, LLC ("G1X") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Conversely, customers of the Self-Directed Channel generatly generate and enter orders themselves of a Financial Advisor. Conversely, customers of the Self-Directed Channel generation and without the benefit of the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates) do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders. Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for such order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Citadel. While nearly all Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel orders routed by ETS are available at https://us.etrade.com//quarterly-order-routing-report. MSSB does not route Full-Service Channel options orders to G1X.

G1X generates revenue from executing or facilitating the execution of MSSB Self-Directed Channel customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from G1X (based upon the consideration G1X receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for springle and complex equity options orders. MSSB does not receive payment from G1X for index options executions on Self-Directed Channel orders of customers, which are orders of customers which are orders of sustomers which are orders of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, MSSB does not route Full-Service Channel customer orders to G1X. Furthermore, MSSB and G1X do not have any arrangements:

A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;

- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to G1X.

There is a potential conflict to an options market maker such as G1X both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the options market maker seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, an options market maker such as G1X can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. An options market maker's (such as G1X's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one sub-category will result in a decreased allocation to one or more of the other categories, with the risk of overallocation to market maker profits at the expense of providing price improvement on MSSB customer orders mitigated by market maker competition for order flow (as measured by the amount of price improvement provided), under the same general payment for order flow terms applicable to G1X.

G1X also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, G1X can earn a profit from such market-making executions. In addition to revenues that G1X may collect for executing or facilitating the execution of Self-Directed Channel customer orders, G1X may also receive remuneration from the U.S. options exchanges to which it routes or directs Self-Directed Channel customer orders in the form of rebates. These U.S. options exchange rebates payments could, in theory, incentivize G1X to route higher percentages of MSSB customer orders to particular venues over others, subject to G1X's independent order routing and best execution obligation. Exchange rebates provided to G1X for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although G1X could potentially use these rebates to provide price improvement to MSSB customers, order flow payments to MSSB with respect to Self-Directed Channel orders, or both.

Dash/IMC Financial Markets:

Morgan Stanley Smith Barney LLC ("MSSB") routes U.S.-listed options orders to Dash Financial Technologies, LLC ("Dash") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers, the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel". Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brosstmers of the Full-Service Channel generate and enter orders themselves for their MSSB accounts, including the services of an MSSB Financial Advisor. Conversely, customers of the Self-Directed Channel generate and enter orders themselves for their MSSB accounts, including the services of a Financial Advisor. Self-Directed Channel orders in NMS securities that are options contracts are subject to the MSSB's \$0 based commission policy, pursuant to which customers generally do not pay base commission for order handling and execution of Self-Directed Channel NMS options orders (subject to disclosed exceptions as described more fully at https://us.etrade.com/what-we-offer/pricing-and-rates). Because MSSB does not charge commission on these Self-Directed Channel orders, the Firm seeks to be compensated, among other ways, through the receipt of payment for order flow from the options market makers that provide liquidity and guarantee executions on the U.S. options exchanges, including Dash. While nearly all E*TRADE from Morgan Stanley Self-Directed Channel customers are customers of MSSB's affiliate broker-dealer, E*TRADE Securities LLC ("ETS") and not MSSB, a limited number of Self-Directed Channel options orders to Dash.

Dash generates revenue from executing or facilitating the execution of MSSB customer orders. In exchange for such routing and solely with respect to Self-Directed Channel options orders, MSSB receives payment from Dash (based upon the consideration Dash receives from the liquidity providers with which it has arrangements as described below) (i.e. payment for order flow) in the amounts outlined in the above Public Order Routing Report disclosures, calculated at a rate of \$0.48 per contract for simple and complex equity options orders. MSSB does not receive payment from Dash for index options executions on Self-Directed Channel orders or for orders of customers, which are orders of customers who submit an average of 390 options orders per trading day, per calendar month, on a quarterly basis. Other than for certain limited order types, which MSSB routes to its affiliate Morgan Stanley & Co., LLC for handling and execution, MSSB only routes Self-Directed Channel orders in NMS securities that are options contracts to market makers that pay for customer order flow, and all such market makers are subject to substantially the same rate of payment. For clarity, and as indicated above, MSSB does not route Full-Service Channel customer orders to Dash. Furthermore, MSSB and Dash do not have any arrangements:

- A. that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds;
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Dash.

In connection with Dash's handling of MSSB retail equity option orders and solely with respect to Self-Directed Channel orders, Dash has arrangements with multiple, unaffiliated liquidity providers, including IMC Financial Markets, designed to facilitate liquidity provision and price improvement opportunities. Pursuant to these arrangements, Dash routes MSSB Self-Directed Channel options orders to exchanges and may preference the liquidity providers on such applicable exchange, consistent with exchange-sponsored programs which are described in the fee schedules of each such options exchange. The liquidity providers provide Dash with payment in connection with Dash's routing of MSSB Self-Directed Channel options orders, including through reciprocal order flow arrangements between Dash and such liquidity provider and/or payment per contract to Dash in return for Self-Directed Channel options orders that Dash routes or directs. Dash provides payment to MSSB on such Self-Directed Channel options orders to Dash or receive payment from Dash with respect to Full-Service Channel options order executions.

There is a potential conflict to Dash and/or the liquidity provider so which Dash routes orders both paying for order flow on applicable Self-Directed Channel orders and providing price improvement for such orders, as the potential source of funds for each is the same, namely the anticipated profit the liquidity provider seeks to earn from executing or facilitating the execution of MSSB customer orders. Accordingly, from such anticipated profit, the liquidity provider such anticipated profit to pay Dash (and for Dash, in turn, to pay MSSB) for order flow; or (iii) retain a larger portion of anticipated profit and not provide (sor provide less) payment for order flow. The liquidity provider such anticipated profit and not provide (sor provide less) payment for order flow anticipated profit and not provide (sor provide less) payment for order flow and provide for provide

Dash also acts as options market maker on one or more of the U.S. options exchanges on which it can execute MSSB customer orders and, as such, Dash can earn a profit from such market-making executions. In addition to revenues that Dash may collect for executing or facilitating the execution of Self-Directed Channel customer orders, Dash may also receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Dash to route higher percentages of MSSB customer orders to particular venues over others, subject to Dash's independent order routing and best execution obligations. MSSB does not share directly in any rebates Dash receives for executions of MSSB customers orders, although Dash could potentially use these rebates to provide price improvement to MSSB with respect to Self-Directed Channel orders, or both.

Jane Street Execution Services Llc:

Morgan Stanley Smith Barney LLC ("MSSB") routes customer orders in NMS securities that are options contracts to Jane Street Execution Services, LLC ("Jane Street") to facilitate liquidity provision and price improvement opportunities for its customers. MSSB operates two primary service channels for its wealth management customers including the Full-Service Channel and the E*TRADE from Morgan Stanley Self-Directed Channel ("Self-Directed Channel"). Customers of the Full-Service Channel receive services from MSSB relating to the operation, servicing, and administration of their MSSB brokerage or advised accounts and the generation of orders for such accounts, including the services of a Financial Advisor. Among other things, MSSB receives compensation for customer Full-Service Channel orders from commissions on their brokerage account orders and fees on their advised accounts. As a result, MSSB does not seek or receive payment for orders flow on such orders. Conversely, customers of the Self-Directed Channel generally generate and enter orders themselves for their brokerage accounts based upon their own investment decision making and without the benefit of the services of a Financial Advisor. MSSB does not route Self-Directed Channel customer options orders to Jane Street and the tables above reflect Full-Service Channel order executions only. For clarity, MSSB does not route Self-Directed Channel option order executions and MSSB does not route Self-Directed Channel options orders to Jane Street do not have any arrangements:

- A, that require MSSB to meet certain volume thresholds or that provide incentives to MSSB for meeting or exceeding certain volume thresholds:
- B. that require MSSB to meet certain minimum volume thresholds or that provide disincentives to MSSB for failing to meet certain minimum volume thresholds;
- C. for volume-based tiered payment schedules; or
- D. that require MSSB to route any orders or a minimum number of orders to Jane Street.

Jane Street may receive remuneration from the U.S. options exchanges to which it routes or directs MSSB customer options orders in the form of rebates. These U.S. options exchange rebate payments could, in theory, incentivize Jane Street to route higher percentages of MSSB customer orders to particular venues over others, subject to Jane Street's independent order routing and best execution obligation. Exchange rebates provided to Jane Street for MSSB customer order executions by the U.S. options exchanges are not passed through to MSSB or its customers although Jane Street's receipt of such rebates could potentially be used to provide price improvement to MSSB customers.