

STATE STREET GLOBAL MARKETS, LLC - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2022

April 2022

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	78.85	3.85	17.31	0.00

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)
NASDAQ Execution Services, LLC (NSDQ)	22.99	0.00	0.00	64.52	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	19.54	38.46	0.00	6.45	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	17.24	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	16.09	28.21	0.00	9.68	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	10.34	23.08	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	6.90	0.00	100.00	12.90	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	2.30	0.00	0.00	6.45	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	2.30	5.13	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

April 2022

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	100.00	0.00	0.00	0.00

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)
National Financial Services LLC (XSTM)	34.78	0.00	0.00	0.00	80.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	21.74	38.46	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	17.39	30.77	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Instinet BlockCross (BLKX)	8.70	0.00	0.00	0.00	20.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	8.70	15.38	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	8.70	15.38	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):
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Citadel Securities LLC (CDRG):

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VIRTU Americas, LLC (NITE):
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Instinet BlockCross (BLKX):
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G1 Execution Services, LLC (ETMM):
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Jane Street Capital, LLC (JNST):
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April 2022

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	0.00	14.29	85.71	0.00

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)
Wolverine Execution Services LLC (WEXX)	43.75	0.00	0.00	46.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	37.50	0.00	100.00	33.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
Morgan Stanley & Company LLC (MSCO)	12.50	0.00	0.00	13.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	6.25	0.00	0.00	6.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Wolverine Execution Services LLC (WEXX):
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Citadel Securities LLC (CDRG):
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Morgan Stanley & Company LLC (MSCO):
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Dash Financial Technologies LLC (DASH):
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May 2022

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	94.96	0.84	4.20	0.00

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)
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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)
National Financial Services LLC (XSTM)	35.14	0.00	0.00	0.00	98.73	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	17.57	34.23	0.00	3.23	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	13.06	26.13	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	9.91	19.82	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	9.91	0.00	0.00	70.97	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	9.46	18.92	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	3.60	0.00	100.00	22.58	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Instinet BlockCross (BLX)	0.45	0.00	0.00	0.00	1.27	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Members Exchange (MEMX)	0.45	0.00	0.00	3.23	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	0.45	0.90	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):

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VIRTU Americas, LLC (NITE):

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G1 Execution Services, LLC (ETMM):

New York Stock Exchange (NYSE):
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Jane Street Capital, LLC (JNST): State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

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Instinet BlockCross (BLKX): State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Members Exchange (MEMX): State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Two Sigma Securities, LLC (SOHO): State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Non-S&P 500 Stocks

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	71.88	3.13	21.88	3.13

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)
Citadel Securities LLC (CDRG)	22.73	39.13	0.00	0.00	12.50	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	15.91	26.09	0.00	8.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	15.91	0.00	0.00	0.00	87.50	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NYSE Arca (ARCA)	11.36	0.00	0.00	41.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	9.09	0.00	0.00	33.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	9.09	17.39	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	9.09	17.39	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	4.55	0.00	0.00	16.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	2.27	0.00	100.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Jane Street Capital, LLC (JNST):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

National Financial Services LLC (XSTM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

NYSE Arca (ARCA):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Cboe EDGX US Equities Exchange (EDGX):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

G1 Execution Services, LLC (ETMM):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

VIRTU Americas, LLC (NITE):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

NASDAQ Execution Services, LLC (NSDQ):
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New York Stock Exchange (NYSE):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

May 2022

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
0.00	0.00	0.00	0.00	0.00

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)
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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	97.10	0.00	2.90	0.00

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)
National Financial Services LLC (XSTM)	34.10	0.00	0.00	0.00	66.42	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Instinet BlockCross (BLKX)	17.24	0.00	0.00	0.00	33.58	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	15.71	33.88	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	13.03	26.45	0.00	33.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	9.58	20.66	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	9.20	19.01	0.00	16.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	1.15	0.00	0.00	50.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):
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G1 Execution Services, LLC (ETMM):

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Citadel Securities LLC (CDRG):
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Jane Street Capital, LLC (JNST):
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VIRTU Americas, LLC (NITE):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

New York Stock Exchange (NYSE):
State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

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June 2022

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	100.00	0.00	0.00	0.00

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)
National Financial Services LLC (XSTM)	30.77	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	20.51	29.63	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
Jane Street Capital, LLC (JNST)	20.51	29.63	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	15.38	22.22	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	12.82	18.52	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):
State Street Global Markets, LLC. (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

G1 Execution Services, LLC (ETMM):
State Street Global Markets, LLC. (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Jane Street Capital, LLC (JNST):
State Street Global Markets, LLC. (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Citadel Securities LLC (CDRG):
State Street Global Markets, LLC. (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

VIRTU Americas, LLC (NITE):
State Street Global Markets, LLC. (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

June 2022

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	30.77	23.08	46.15	0.00

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)
Citadel Securities LLC (CDRG)	50.00	50.00	66.67	46.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	36.36	25.00	0.00	46.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	4.55	0.00	0.00	6.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Morgan Stanley & Company LLC (MSCO)	4.55	0.00	33.33	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	4.55	25.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

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Wolverine Execution Services LLC (WEXX):

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Dash Financial Technologies LLC (DASH):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Morgan Stanley & Company LLC (MSCO):

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Susquehanna Capital Group (SUSQ):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.