# Ally Invest Securities LLC - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2023

## April 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
100.00	20.68	3.92	67.42	7.98

## 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	37.05	24.92	26.13	39.96	49.21	4,358.95	22.0000	1,276.13	22.0001	3,418.32	29.8300	1,346.60	14.8238
Virtu Americas, LLC	28.19	20.00	19.08	31.49	25.99	3,052.60	20.2743	877.32	22.1387	1,922.96	30.0000	537.73	23.1614
Two Sigma Securities, LLC	20.61	45.16	44.68	12.69	12.08	8,461.08	24.4961	2,898.94	25.0232	5,637.26	29.6296	1,626.48	27.4103
G1 Execution Services, LLC	14.15	9.91	10.11	15.86	12.72	1,997.49	24.6209	648.33	24.4750	1,365.02	30.0001	331.75	27.4004

## Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed orders routed to Citadel Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Extended hours order: up to \$0.001 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

We receive payment for executed orders routed to Virtu Americas with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.00175 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

We do not receive payment for any extended hours orders, regardless of size or marketability. These payment arrangements are conditioned upon regular attestations to Virtu that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Two Sigma Securities, LLC:

We receive payment for executed orders routed to Two Sigma Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Two Sigma that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

(iii) Non-marketable order, listed equity priced at \$1.00 per share or more: up to \$0.003 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

These payment arrangements are conditioned upon regular attestations to G1X that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## April 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	22.20	5.18	64.22	8.39

## 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	36.40	25.11	26.63	39.32	49.93	15,622.71	18.7223	8,644.54	18.0062	15,199.71	24.8216	6,504.70	10.4821
Virtu Americas, LLC	27.35	19.86	18.26	30.94	25.25	14,736.81	20.2192	6,842.59	21.5557	10,531.84	27.8443	1,236.94	22.5703
Two Sigma Securities, LLC	22.30	44.94	44.62	14.00	12.18	31,025.73	20.3351	15,120.32	18.9948	24,265.24	24.6727	5,237.79	21.2510
G1 Execution Services, LLC	13.95	10.09	10.49	15.73	12.64	7,580.72	22.8794	4,922.98	25.2134	6,271.79	25.9352	1,336.09	25.9974

## Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed orders routed to Citadel Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Extended hours order: up to \$0.001 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not necotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

We receive payment for executed orders routed to Virtu Americas with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.00175 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

We do not receive payment for any extended hours orders, regardless of size or marketability. These payment arrangements are conditioned upon regular attestations to Virtu that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Two Sigma Securities, LLC:

We receive payment for executed orders routed to Two Sigma Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Two Sigma that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

(iii) Non-marketable order, listed equity priced at \$1.00 per share or more: up to \$0.003 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

These payment arrangements are conditioned upon regular attestations to G1X that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## April 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	7.26	9.52	49.55	33.67

## 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	35.78	27.83	29.64	37.95	36.04	22,291.50	47.8738	53,455.50	49.5357	39,680.50	48.0004	30,321.50	45.1152
Wolverine Execution Services, LLC	32.12	29.28	24.73	31.02	36.45	17,250.15	37.6723	31,928.65	40.8613	34,789.10	43.6725	36,098.91	47.2184
Global Execution Brokers LP	30.27	40.60	43.06	29.49	25.59	22,746.57	37.0882	52,938.33	43.8576	56,537.34	43.1000	26,043.32	35.8531
Dash/IMC Financial Markets	1.83	2.28	2.56	1.55	1.92	1,843.00	46.7885	3,237.00	49.2769	3,178.50	48.2029	2,389.00	44.1263

## Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed multi-listed, non-index option orders routed to Citadel Securities at a rate of up to \$0.50 per contract. Citadel waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Wolverine Execution Services, LLC:

We receive payment for executed multi-listed, non-index option orders routed to Wolverine Execution Services at the following rates:

(i) Single-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(ii) Single-Leg order, Penny Interval Program: up to \$0.35 per contract

(iii) Multi-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(iv) Multi-Leg order, Penny Interval Program: up to \$0.43 per contract

Wolverine waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Wolverine that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Global Execution Brokers LP:

We receive payment for executed multi-listed, non-index option orders routed to Global Execution Brokers at the following rates:

(i) Single-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(ii) Single-Leg order, Penny Interval Program: up to \$0.37 per contract

(iii) Multi-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(iv) Multi-Leg order, Penny Interval Program: up to \$0.44 per contract

Global Execution Brokers waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Global Execution Brokers that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Dash/IMC Financial Markets:

We receive payment for executed multi-listed, non-index option orders routed to Dash/IMC Financial Markets at a rate of up to \$0.50 per contract. Dash/IMC Financial Markets waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Dash/IMC Financial Markets that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement. We route to Dash Financial Technologies, who has a relationship with IMC whereby Dash routes to an exchange and preferences IMC.

#### APEX CLEARING CORPORATION:

We route orders of multi-listed options to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex forwards such payment to us. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https:// www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

May 2023

#### 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	22.21	3.82	65.86	8.11

## 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	36.18	25.16	27.16	39.09	46.95	4,236.87	22.0000	1,119.92	22.0000	3,537.59	29.8945	1,443.54	16.2957
Virtu Americas, LLC	27.38	19.69	19.03	30.54	26.78	3,076.43	19.1745	692.56	21.1141	2,499.36	30.0000	426.74	21.8186
Two Sigma Securities, LLC	22.31	45.05	43.59	14.55	13.06	8,568.16	23.8108	2,356.53	24.7037	5,740.92	29.8082	1,769.62	27.1794
G1 Execution Services, LLC	14.13	10.10	10.22	15.83	13.22	1,931.91	23.6531	283.89	22.0002	1,548.73	30.0000	433.98	27.7925

## Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed orders routed to Citadel Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Extended hours order: up to \$0.001 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Virtu Americas, LLC:

We receive payment for executed orders routed to Virtu Americas with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.00175 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

We do not receive payment for any extended hours orders, regardless of size or marketability. These payment arrangements are conditioned upon regular attestations to Virtu that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Two Sigma Securities, LLC:

We receive payment for executed orders routed to Two Sigma Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

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G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

(iii) Non-marketable order, listed equity priced at \$1.00 per share or more: up to \$0.003 per share

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#### APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## May 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	24.02	4.98	62.34	8.66

## 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	35.81	24.96	26.44	38.79	49.92	18,569.45	19.2159	7,485.11	15.1940	14,591.35	25.2254	7,285.00	13.0030
Virtu Americas, LLC	26.85	19.96	18.76	30.51	24.29	15,358.11	19.8672	6,489.96	20.7534	12,118.20	27.6353	1,478.08	22.1411
Two Sigma Securities, LLC	23.76	45.10	44.19	15.33	13.45	35,536.83	21.0636	14,789.10	17.0774	26,030.02	25.9920	6,111.94	23.9319
G1 Execution Services, LLC	13.58	9.98	10.60	15.37	12.35	8,527.36	23.2516	4,265.19	24.8709	7,624.23	26.1181	1,842.04	26.6621

### Material Aspects:

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Virtu Americas, LLC:

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G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

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#### APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## May 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	7.56	9.84	50.02	32.59

#### 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)
Wolverine Execution Services, LLC	34.15	34.17	29.58	33.64	36.29	23,151.35	39.6896	38,802.55	42.2681	47,708.25	44.4310	42,714.81	46.1742
CITADEL SECURITIES LLC	33.45	25.30	27.26	35.73	33.69	21,896.50	48.9034	51,712.00	49.7150	44,080.50	48.5612	32,629.50	45.0503
Global Execution Brokers LP	28.09	35.40	37.68	26.78	25.51	25,376.56	40.3520	56,849.21	44.5638	60,311.87	44.4352	36,918.11	43.7330

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)
Dash/IMC Financial Markets	4.32	5.12	5.48	3.84	4.51	4,848.00	49.0887	9,173.50	49.7047	8,419.50	48.5498	6,678.00	46.1507

## Material Aspects:

Wolverine Execution Services, LLC:

We receive payment for executed multi-listed, non-index option orders routed to Wolverine Execution Services at the following rates:

(i) Single-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(ii) Single-Leg order, Penny Interval Program: up to \$0.35 per contract

(iii) Multi-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(iv) Multi-Leg order, Penny Interval Program: up to \$0.43 per contract

Wolverine waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Wolverine that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### CITADEL SECURITIES LLC:

We receive payment for executed multi-listed, non-index option orders routed to Citadel Securities at a rate of up to \$0.50 per contract. Citadel waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Global Execution Brokers LP:

We receive payment for executed multi-listed, non-index option orders routed to Global Execution Brokers at the following rates:

(i) Single-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(ii) Single-Leg order, Penny Interval Program: up to \$0.37 per contract

(iii) Multi-Leg order, non-Penny Interval Program: up to \$1.00 per contract

(iv) Multi-Leg order, Penny Interval Program: up to \$0.44 per contract

Global Execution Brokers waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Global Execution Brokers that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Dash/IMC Financial Markets:

We receive payment for executed multi-listed, non-index option orders routed to Dash/IMC Financial Markets at a rate of up to \$0.50 per contract. Dash/IMC Financial Markets waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Dash/IMC Financial Markets that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement. We route to Dash Financial Technologies, who has a relationship with IMC whereby Dash routes to an exchange and preferences IMC.

#### APEX CLEARING CORPORATION:

We route orders of multi-listed options to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex forwards such payment to us. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https:// www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## June 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	
100.00	22.33	3.78	64.49	9.40	

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	34.83	24.55	26.40	37.48	44.49	3,580.20	22.0000	1,021.34	22.0000	3,079.88	29.6741	848.64	15.1904
Virtu Americas, LLC	28.19	20.85	19.58	31.15	28.82	3,234.29	23.1366	652.72	22.6039	2,273.94	30.0000	355.77	24.4335
Two Sigma Securities, LLC	21.87	43.40	42.28	14.70	11.71	6,741.01	23.2606	1,923.86	23.7537	5,073.54	29.7486	1,213.41	26.9997
G1 Execution Services, LLC	15.11	11.20	11.73	16.68	14.98	1,658.62	22.7120	319.83	22.5642	1,464.25	30.0000	254.81	27.4562

### Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed orders routed to Citadel Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Extended hours order: up to \$0.001 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

We receive payment for executed orders routed to Virtu Americas with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

We do not receive payment for any extended hours orders, regardless of size or marketability. These payment arrangements are conditioned upon regular attestations to Virtu that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Two Sigma Securities, LLC:

We receive payment for executed orders routed to Two Sigma Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Two Sigma that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

(iii) Non-marketable order, listed equity priced at \$1.00 per share or more: up to \$0.003 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

These payment arrangements are conditioned upon regular attestations to G1X that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning pack's order routing practices, which we are adopting by reference.

June 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	24.34	4.86	61.92	8.88	

### 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	34.40	24.41	25.76	37.30	46.29	17,915.97	19.8740	6,915.86	16.2525	16,454.20	23.7518	4,448.78	11.2405
Virtu Americas, LLC	27.58	20.86	19.52	30.90	27.21	20,718.59	23.5746	7,974.70	24.2409	12,966.95	28.7082	1,149.68	19.6546
Two Sigma Securities, LLC	23.19	43.79	43.26	15.09	12.24	37,414.62	21.4241	12,945.90	18.4122	25,421.49	23.3238	5,717.60	24.9292
G1 Execution Services, LLC	14.83	10.94	11.47	16.70	14.27	9,890.46	23.7580	4,791.64	24.4861	8,564.12	23.5799	1,502.35	27.0259

## Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed orders routed to Citadel Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Extended hours order: up to \$0.001 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

We receive payment for executed orders routed to Virtu Americas with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

We do not receive payment for any extended hours orders, regardless of size or marketability. These payment arrangements are conditioned upon regular attestations to Virtu that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

Two Sigma Securities, LLC:

We receive payment for executed orders routed to Two Sigma Securities with respect to listed equities priced at \$1.00 per share or more, at the following rates:

(i) Marketable order: up to \$0.0022 per share

(ii) Non-marketable order: up to \$0.003 per share

(iii) Order greater than 10,000 shares or \$250,000 principal value: up to \$0.003 per share

These payment arrangements are conditioned upon regular attestations to Two Sigma that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

We receive payment for executed orders routed to G1X Execution Services at the following rates:

(i) Marketable order, listed equity priced at \$1.00 per share or more: up to \$0.0022 per share

(ii) Marketable order, listed equity priced under \$1.00 per share: up to \$0.001 per share

(iii) Non-marketable order, listed equity priced at \$1.00 per share or more: up to \$0.003 per share

(iv) Order greater than 10,000 shares or \$250,000 principal value: \$0.003 per share

These payment arrangements are conditioned upon regular attestations to G1X that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

## APEX CLEARING CORPORATION:

We route orders of listed equities to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex retains 10% of such payment and pays us the remaining 90%. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https://www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.

## June 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	8.30	10.22	50.08	31.39

## 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	34.93	25.35	26.91	35.00	39.95	21,135.50	48.8614	50,677.00	49.8338	38,687.50	48.6586	34,451.00	44.6627
Wolverine Execution Services, LLC	31.51	29.20	25.07	30.55	35.75	26,815.00	48.6361	40,048.00	49.7213	44,687.00	49.0247	34,991.00	45.3257
Global Execution Brokers LP	25.33	35.39	37.38	26.79	16.40	32,794.00	49.1790	64,312.00	49.8384	59,258.50	49.3089	21,112.50	43.9798
Dash/IMC Financial Markets	8.23	10.06	10.63	7.65	7.90	9,020.00	49.5387	16,573.50	49.7658	18,361.00	49.1067	9,961.50	44.9303

### Material Aspects:

CITADEL SECURITIES LLC:

We receive payment for executed multi-listed, non-index option orders routed to Citadel Securities at a rate of up to \$0.50 per contract. Citadel waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Citadel that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Wolverine Execution Services, LLC:

We receive payment for executed multi-listed, non-index option orders routed to Wolverine at a rate of up to \$0.50 per contract. Wolverine waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Wolverine that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Global Execution Brokers LP:

We receive payment for executed multi-listed, non-index option orders routed to Global Execution Brokers at a rate of up to \$0.50 per contract. Global Execution Brokers waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Global Execution Brokers that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement.

#### Dash/IMC Financial Markets:

We receive payment for executed multi-listed, non-index option orders routed to Dash/IMC Financial Markets at a rate of up to \$0.50 per contract. Dash/IMC Financial Markets waives fees associated with index options so long as they do not exceed 5% of the total monthly volume. These payment arrangements are conditioned upon regular attestations to Dash/IMC Financial Markets that substantially all of the orders we route to them qualify as "retail" orders (i.e., originating from natural persons and not generated by trading algorithms or other computerized methods). Although we do not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse (though not necessarily proportional) relationship between payment for order flow rates and price improvement. We route to Dash Financial Technologies, who has a relationship with IMC whereby Dash routes to an exchange and preferences IMC.

#### APEX CLEARING CORPORATION:

We route orders of multi-listed options to our clearing firm, Apex Clearing Corporation, which further routes them to execution venues with which it has relationships. The execution venues may pay Apex for such order flow, in which case Apex forwards such payment to us. We do not determine or influence where Apex routes our orders. Further, we do not participate in any discussions concerning the payment-for-order-flow arrangements between Apex and the execution venues, nor do we influence those arrangements in any manner. See https:// www.apexclearing.com/sec-rule-606-and-607/ for reports concerning Apex's order routing practices, which we are adopting by reference.