

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

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3rd Quarter, 2021

July 2021

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	22.39	3.90	61.51	12.21

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	48.39	46.53	48.74	48.07	53.28	9,572.91	22.0000	3,068.39	22.0000	7,829.34	30.0000	1,879.20	17.8742
Virtu Americas, LLC	25.89	26.67	23.84	26.09	24.11	5,191.91	20.7201	1,187.01	20.7025	3,472.74	29.9974	510.93	22.3533
G1 Execution Services, LLC	25.72	26.80	27.42	25.84	22.61	5,760.61	22.5866	1,341.54	22.7424	4,075.52	30.0000	950.22	27.2807

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

July 2021

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	20.25	5.28	65.19	9.28

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	48.60	46.72	48.77	47.90	57.55	41,349.84	20.9404	24,310.62	20.8333	43,876.53	28.7796	10,601.46	16.4193
G1 Execution Services, LLC	25.80	27.00	26.82	26.13	20.31	26,381.31	23.0208	13,451.96	23.8636	26,273.15	29.0071	3,881.70	27.9381
Virtu Americas, LLC	25.59	26.28	24.42	25.97	22.14	25,969.75	21.8090	10,942.68	21.7543	20,446.40	29.7946	1,440.07	23.9646

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

July 2021

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	5.65	5.97	55.84	32.53

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	43.28	31.64	33.75	40.78	51.34	30,835.00	49.8851	70,125.00	49.6837	74,332.00	48.8641	68,972.00	46.6787
Wolverine Execution Services, LLC	30.14	32.61	28.74	31.80	27.13	28,385.70	42.6039	48,352.95	48.6028	68,884.45	48.3210	36,228.51	47.9880
Global Execution Brokers LP	26.58	35.74	37.51	27.42	21.52	30,908.90	43.9378	66,888.44	48.7383	84,345.52	49.0352	41,884.38	46.6637

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Wolverine Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Wolverine Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Global Execution Brokers LP:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Global Execution Brokers LP. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

August 2021

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	22.54	3.74	61.42	12.31

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	43.90	41.77	44.02	43.59	49.33	9,663.39	22.0000	2,423.89	22.0000	6,691.56	30.0000	1,816.08	18.0043
G1 Execution Services, LLC	34.44	36.63	36.13	34.40	30.08	8,012.12	22.3232	1,600.30	23.1576	5,074.40	30.0000	1,276.17	27.0805
Virtu Americas, LLC	21.66	21.60	19.85	22.01	20.59	4,440.27	18.7811	748.66	20.4629	2,890.39	30.0000	384.00	20.7517

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)
Apex Clearing Corporation	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Apex Clearing Corporation:

Ally Invest Securities LLC did not receive any payment from its clearing firm, Apex Clearing Corp. and routed de minimis orders to them. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

August 2021

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	21.16	5.28	63.90	9.66

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	44.34	42.07	43.96	43.57	54.65	40,037.08	20.5982	20,262.36	20.2352	37,281.18	28.2281	10,587.32	16.2273
G1 Execution Services, LLC	34.24	36.01	36.05	34.56	27.26	36,259.22	22.8571	21,155.39	24.4476	33,745.88	28.4351	6,726.33	27.2132
Virtu Americas, LLC	21.42	21.92	20.00	21.87	18.09	23,469.52	20.5177	8,522.72	19.9180	16,618.97	29.3809	1,448.71	21.0300
Apex Clearing Corporation	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Apex Clearing Corporation:

Ally Invest Securities LLC did not receive any payment from its clearing firm, Apex Clearing Corp. and routed de minimis orders to them. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

August 2021

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	5.73	5.98	55.11	33.18

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	43.65	33.14	35.20	41.36	50.79	32,625.00	49.9288	74,175.00	49.3694	82,255.00	48.8865	68,312.00	46.3591
Wolverine Execution Services, LLC	29.43	31.03	27.08	30.64	27.57	24,760.95	44.4446	49,416.55	49.9642	64,278.50	48.3868	43,645.19	50.5059
Global Execution Brokers LP	26.92	35.83	37.72	27.99	21.65	30,867.02	44.6397	73,869.76	49.7115	87,841.20	49.6808	42,669.10	47.0250

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Wolverine Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Wolverine Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Global Execution Brokers LP:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Global Execution Brokers LP. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

September 2021

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	20.28	5.90	61.31	12.52

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	41.60	40.71	40.58	41.17	45.60	8,335.11	22.0000	1,699.91	22.0000	5,632.20	30.0000	2,056.50	20.8669
G1 Execution Services, LLC	40.56	40.90	40.55	41.08	37.46	8,036.95	23.0935	1,271.07	22.6116	5,902.49	30.0000	2,073.49	26.6364
Virtu Americas, LLC	17.85	18.39	18.87	17.75	16.95	3,018.17	19.4026	637.29	20.2909	2,278.46	29.9999	616.12	21.4903

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

September 2021

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	19.56	6.94	63.21	10.29

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	42.02	40.72	40.63	41.21	50.43	40,728.17	20.2523	20,671.44	19.4281	45,567.45	28.3619	10,315.03	16.0013
G1 Execution Services, LLC	40.39	40.57	41.11	41.26	34.24	46,949.62	23.3153	27,525.57	24.2487	45,268.14	28.0815	7,201.82	28.1003
Virtu Americas, LLC	17.59	18.72	18.26	17.53	15.33	19,031.62	19.9350	7,456.89	19.7391	16,443.42	28.9705	1,207.62	23.4485

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

G1 Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by G1 Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Virtu Americas, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Virtu Americas, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

September 2021

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	5.86	5.83	55.18	33.14

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)
CITADEL SECURITIES LLC	43.73	33.40	35.50	41.67	50.44	33,725.00	49.6972	69,341.00	49.5456	73,990.00	48.8767	66,227.00	45.4890
Wolverine Execution Services, LLC	29.62	30.93	27.12	30.78	27.91	29,405.05	43.1970	54,571.90	52.6091	60,301.10	49.3442	38,292.82	50.0848
Global Execution Brokers LP	26.64	35.67	37.38	27.55	21.65	33,045.11	44.7009	70,821.22	52.0572	85,317.46	51.8395	41,854.67	45.8556

Material Aspects:

CITADEL SECURITIES LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Citadel Securities LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Wolverine Execution Services, LLC:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Wolverine Execution Services, LLC. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.

Global Execution Brokers LP:

Ally Invest Securities (AIS) received payment for certain equity orders routed to and executed by Global Execution Brokers LP. Payment was based on order type, size, and time of day. Although AIS does not negotiate for higher payment rates in exchange for lower execution quality, in general there is an inverse relationship between payment for order flow rates and price improvement.