

TD Ameritrade Clearing, Inc - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2022

October 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
99.97	23.96	6.11	33.95	35.97

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	32.28	33.25	33.66	22.46	40.66	1,170,347.00	9.8800	190,436.00	9.8800	322,799.00	28.3700	94,431.00	8.1300
Virtu Americas, LLC	24.97	24.88	24.55	13.66	35.77	839,129.00	9.9000	135,735.00	9.9000	244,778.00	28.4900	76,481.00	8.0700
G1 Execution Services, LLC	14.99	22.88	22.03	15.97	7.60	879,529.00	9.9500	131,967.00	9.9500	401,982.00	35.2200	48,619.00	10.0800
Jane Street Capital	12.76	16.65	15.50	15.40	7.21	714,938.00	10.0000	106,946.00	10.0000	100,947.00	28.6300	52,302.00	10.0200
Two Sigma Securities, LLC	9.77	0.48	2.18	23.71	4.07	16,944.00	9.8200	7,106.00	9.8200	734,589.00	31.3900	21,510.00	10.2300

Material Aspects:

CITADEL SECURITIES LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Virtu Americas, LLC:

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October 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
99.90	23.48	8.01	32.97	35.54

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	33.32	33.34	33.99	22.56	43.14	3,871,545.00	9.8800	1,445,049.00	9.8800	1,103,643.00	23.2100	579,863.00	7.4600
Virtu Americas, LLC	26.27	24.85	25.41	14.71	38.12	2,767,800.00	9.9000	1,012,121.00	9.9000	803,422.00	23.2200	457,660.00	7.3600
G1 Execution Services, LLC	13.89	22.63	21.50	14.62	5.72	2,863,497.00	9.9500	984,354.00	9.9500	962,199.00	22.4400	170,798.00	10.0200
Jane Street Capital	12.09	16.74	15.42	15.29	5.30	2,350,480.00	10.0000	798,622.00	10.0000	309,653.00	23.2300	177,281.00	9.9500
Two Sigma Securities, LLC	9.22	0.49	1.65	23.74	3.21	57,802.00	9.8200	36,842.00	9.8200	2,017,844.00	22.9200	81,977.00	10.2000

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October 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	7.86	12.72	54.23	25.19

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(cent per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cent per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cent per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cent per hundred shares)
CITADEL SECURITIES LLC	41.99	42.56	42.19	44.95	35.34	2,615,743.00	46.7800	6,325,663.00	56.0800	7,195,403.00	53.1500	1,734,160.00	38.5200
Global Execution Brokers LP	27.70	33.05	33.24	35.74	5.92	2,000,811.00	48.3200	4,933,391.00	58.3400	5,514,038.00	53.1500	276,276.00	41.6600
Wolverine Execution Services	14.53	2.64	3.89	12.82	27.30	172,674.00	58.5600	683,805.00	70.7800	1,955,023.00	53.1500	1,368,710.00	40.3900
Dash/IMC Financial Markets	12.27	15.52	15.35	5.47	24.35	1,209,731.00	58.1700	2,642,118.00	64.5600	886,147.00	53.0600	1,100,995.00	36.1800

Material Aspects:

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Global Execution Brokers LP:

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Wolverine Execution Services:

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November 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
99.98	23.02	6.01	34.28	36.69

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	33.02	35.22	35.24	21.50	42.04	993,030.00	9.5400	157,854.00	9.5400	289,286.00	28.5600	72,593.00	8.5100
Virtu Americas, LLC	24.27	28.53	27.98	12.32	32.15	773,739.00	9.5600	123,501.00	9.5600	207,076.00	28.5600	51,664.00	8.4300
G1 Execution Services, LLC	15.41	21.74	21.11	17.65	8.42	697,808.00	9.6500	103,420.00	9.6500	337,693.00	34.3800	50,574.00	10.1000
Jane Street Capital	10.91	12.17	11.38	13.59	7.55	444,483.00	9.6900	65,050.00	9.6900	97,423.00	29.2300	55,401.00	10.0200
Two Sigma Securities, LLC	10.72	0.48	2.33	26.67	3.62	13,719.00	9.4100	5,582.00	9.4100	637,536.00	30.8300	13,999.00	10.2500

Material Aspects:

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November 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
99.90	22.15	7.97	33.61	36.27

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	34.32	35.35	35.40	21.92	44.94	3,683,672.00	9.5400	1,597,143.00	9.5400	1,043,788.00	22.0900	600,419.00	7.3500
Virtu Americas, LLC	25.47	28.40	28.44	13.50	34.12	2,844,363.00	9.5600	1,202,012.00	9.5600	732,896.00	22.0700	443,332.00	7.2600
G1 Execution Services, LLC	14.15	21.60	20.87	16.14	6.29	2,547,599.00	9.6500	1,017,397.00	9.6500	880,701.00	18.9500	200,487.00	9.9700
Jane Street Capital	10.18	12.22	11.40	13.46	5.63	1,640,550.00	9.6900	645,182.00	9.6900	315,187.00	21.9200	209,024.00	9.8900
Two Sigma Securities, LLC	10.15	0.48	1.91	26.40	2.79	50,895.00	9.4100	43,910.00	9.4100	1,892,208.00	20.9800	62,728.00	10.1500

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November 2022

Options

Summary

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100.00	7.67	12.66	55.00	24.67

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	42.55	43.72	42.99	44.41	37.79	2,757,344.00	47.9900	6,701,502.00	57.7900	7,354,023.00	54.0100	1,820,635.00	39.5200
Global Execution Brokers LP	27.09	35.08	35.34	33.51	6.04	2,249,290.00	51.7800	5,536,645.00	61.8200	5,253,597.00	54.0100	281,423.00	44.5600
Wolverine Execution Services	13.73	2.18	3.20	11.06	28.66	138,658.00	57.7901	545,365.00	69.9900	1,722,075.00	54.0100	1,479,646.00	43.1800
Dash/IMC Financial Markets	13.15	12.57	12.98	9.97	20.50	1,005,438.00	61.8000	2,313,766.00	67.1900	1,625,398.00	53.9700	915,756.00	35.0400

Material Aspects:

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December 2022

S&P 500 Stocks

Summary

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99.98	22.84	6.03	34.62	36.51

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	31.49	31.07	30.82	19.88	42.88	756,511.00	9.1600	123,673.00	9.1600	237,315.00	28.1300	53,157.00	8.6100
Virtu Americas, LLC	27.02	34.22	33.88	15.18	32.60	794,592.00	9.1100	132,012.00	9.1100	192,233.00	28.2600	44,419.00	8.7000
G1 Execution Services, LLC	16.05	25.04	23.74	16.34	8.89	719,221.00	9.2400	112,058.00	9.2400	278,749.00	34.3400	46,203.00	10.1000
Two Sigma Securities, LLC	10.94	0.50	2.48	27.23	3.43	12,607.00	8.9500	5,878.00	8.9500	487,810.00	30.3100	12,222.00	10.3600
Jane Street Capital	9.01	7.24	6.87	12.13	7.52	244,692.00	9.2000	40,134.00	9.2000	92,813.00	28.6300	56,143.00	10.0300

Material Aspects:

CITADEL SECURITIES LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Virtu Americas, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

G1 Execution Services, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Two Sigma Securities, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Jane Street Capital:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

December 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
99.89	22.23	8.24	33.82	35.70

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	33.07	31.09	30.98	20.58	46.63	2,916,256.00	9.1600	1,413,619.00	9.1600	900,013.00	20.9300	562,098.00	7.0700
Virtu Americas, LLC	28.09	33.98	34.32	16.24	34.21	3,067,020.00	9.1100	1,490,803.00	9.1100	704,531.00	20.7500	503,667.00	7.0900
G1 Execution Services, LLC	14.77	24.99	23.48	14.89	6.28	2,749,038.00	9.2400	1,235,751.00	9.2400	881,934.00	16.3400	202,294.00	9.9300
Two Sigma Securities, LLC	10.21	0.51	2.04	26.64	2.58	51,277.00	8.9500	47,149.00	8.9500	1,629,359.00	19.1200	63,578.00	10.1500
Jane Street Capital	8.32	7.39	6.91	12.12	5.62	985,063.00	9.2000	434,238.00	9.2000	308,971.00	20.7100	239,221.00	9.8800

Material Aspects:

CITADEL SECURITIES LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Virtu Americas, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

G1 Execution Services, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Two Sigma Securities, LLC:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Jane Street Capital:

TD Ameritrade Clearing, Inc. receives payment for routing listed equity order flow to market makers. For marketable orders the payment rate is \$0.001 per share or less, for non-marketable orders the rate is \$0.0037 per share or less, and for extended hours orders the rate is \$0.0006 per share or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

December 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	8.15	12.88	54.25	24.72

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	39.34	39.52	39.11	42.42	32.65	2,415,015.00	45.4100	5,611,240.00	55.6600	6,208,402.00	53.5400	1,434,826.00	38.7900
Global Execution Brokers LP	28.05	36.24	36.77	34.54	6.57	2,318,762.00	50.2900	5,424,218.00	60.4900	4,782,057.00	53.5400	291,138.00	44.0300
Dash/IMC Financial Markets	17.65	15.96	16.39	15.48	23.64	1,139,889.00	53.7100	2,524,967.00	61.2200	2,198,602.00	53.5200	1,036,168.00	38.6300
Wolverine Execution Services	11.25	1.52	1.97	6.41	29.90	78,796.00	44.1501	271,773.00	59.3500	917,743.00	53.5400	1,332,401.00	39.3200

Material Aspects:

CITADEL SECURITIES LLC:

TD Ameritrade Clearing, Inc. receives payment for routing multi-listed option order flow to market makers. For complex orders on classes in the penny interval program the payment rate is \$0.43 per contract or less, and for all other complex orders the payment rate is \$0.93 per contract or less. For marketable orders on classes in the penny interval program the payment rate is \$0.79 per contract or less, and for all other marketable orders the payment rate is \$1.49 per contract or less. For non-marketable orders on classes in the penny interval program the payment rate is \$0.51 per contract or less, and for all other non-marketable orders the payment rate is \$0.98 per contract or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Global Execution Brokers LP:

TD Ameritrade Clearing, Inc. receives payment for routing multi-listed option order flow to market makers. For complex orders on classes in the penny interval program the payment rate is \$0.43 per contract or less, and for all other complex orders the payment rate is \$0.93 per contract or less. For marketable orders on classes in the penny interval program the payment rate is \$0.79 per contract or less, and for all other marketable orders the payment rate is \$1.49 per contract or less. For non-marketable orders on classes in the penny interval program the payment rate is \$0.51 per contract or less, and for all other non-marketable orders the payment rate is \$0.98 per contract or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.

Dash/IMC Financial Markets:

TD Ameritrade Clearing, Inc. receives payment for routing multi-listed option order flow to market makers. For complex orders on classes in the penny interval program the payment rate is \$0.43 per contract or less, and for all other complex orders the payment rate is \$0.93 per contract or less. For marketable orders on classes in the penny interval program the payment rate is \$0.79 per contract or less, and for all other marketable orders the payment rate is \$1.49 per contract or less. For non-marketable orders on classes in the penny interval program the payment rate is \$0.51 per contract or less, and for all other non-marketable orders the payment rate is \$0.98 per contract or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker. In connection with Dash Financial's handling of TD Ameritrade's listed option orders, Dash has arrangements with multiple unaffiliated liquidity providers, including IMC Chicago, designed to facilitate liquidity and price improvement opportunities. Pursuant to these arrangements, Dash routes listed option orders to exchanges and preferences the liquidity providers consistent with exchange sponsored programs. It is noted that these liquidity providers provide Dash with remuneration in connection with TD Ameritrade's listed option orders, including reciprocal order flow consideration or payment per contract in return for TD Ameritrade's listed option orders that Dash routes or directs.

Wolverine Execution Services:

TD Ameritrade Clearing, Inc. receives payment for routing multi-listed option order flow to market makers. For complex orders on classes in the penny interval program the payment rate is \$0.43 per contract or less, and for all other complex orders the payment rate is \$0.93 per contract or less. For marketable orders on classes in the penny interval program the payment rate is \$0.79 per contract or less, and for all other marketable orders the payment rate is \$1.49 per contract or less. For non-marketable orders on classes in the penny interval program the payment rate is \$0.51 per contract or less, and for all other non-marketable orders the payment rate is \$0.98 per contract or less. All market makers pay the same rate for each respective order flow type. TD Ameritrade does not negotiate payment as a condition for sending more order flow to a market maker.