

MML INVESTORS SERVICES, LLC - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2025

April 2025

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	99.04	0.07	0.85	0.05

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	27.99	28.85	13.76	3.92	38.46	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	22.17	22.86	7.34	3.35	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	19.31	19.91	11.01	2.19	58.97	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	8.16	8.41	3.67	1.32	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	7.55	7.79	3.67	0.91	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	7.13	7.37	22.94	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	2.55	2.63	2.75	0.41	2.56	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	1.61	0.00	17.43	46.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
MML Investors Services, Inc. (GRPS)	1.58	1.64	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
New York Stock Exchange (NYSE)	1.24	0.00	16.51	35.78	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

G1 Execution Services, LLC (ETMM):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

VIRTU Americas, LLC (NITE):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

Jane Street Capital, LLC (JNST):
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MML Investors Services, Inc. (GRPS):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

New York Stock Exchange (NYSE):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

April 2025

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	99.04	0.21	0.72	0.03

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 (CDRG)	25.11	25.53	14.84	4.39	53.66	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	19.84	20.18	10.65	3.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	17.63	17.92	10.16	3.19	43.90	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	17.61	17.88	36.45	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	7.37	7.50	3.23	1.27	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	6.91	7.03	3.71	0.96	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	2.34	2.38	1.94	0.28	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
MML Investors Services, Inc. (GRPS)	0.79	0.81	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.46	0.00	2.90	24.47	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NYSE Arca (ARCA)	0.46	0.00	3.87	24.01	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

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G1 Execution Services, LLC (ETMM):

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VIRTU Americas, LLC (NITE):

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National Financial Services LLC (XSTM):

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Jane Street Capital, LLC (JNST):

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HRT FINANCIAL LP (HRTF):

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MML Investors Services, Inc. (GRPS):

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New York Stock Exchange (NYSE):

MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

NYSE Arca (ARCA):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

April 2025

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	63.25	8.66	14.25	13.85

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	49.21	51.97	47.76	41.48	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	20.19	16.94	25.37	28.15	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	17.82	21.81	19.40	4.44	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	8.20	4.41	2.99	22.96	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Morgan Stanley & Company LLC (MSCO)	4.26	4.64	4.48	2.96	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.16	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	0.16	0.23	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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Wolverine Execution Services LLC (WEXX):
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Morgan Stanley & Company LLC (MSCO):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

Interactive Brokers LLC (IBKR):
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Jane Street Capital, LLC (JNST):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

May 2025

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	98.84	0.08	1.02	0.07

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	28.71	30.40	14.77	3.62	54.55	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	20.90	22.15	9.09	2.87	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	19.26	20.39	14.77	2.36	43.18	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	8.23	8.73	1.14	0.98	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	7.35	7.80	1.14	0.83	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	6.52	6.94	19.32	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	3.24	0.00	21.59	51.03	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	2.29	0.00	15.91	36.07	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

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Two Sigma Securities, LLC (SOHO)	1.97	2.09	1.14	0.19	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
MML Investors Services, Inc. (GRPS)	0.72	0.77	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

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Jane Street Capital, LLC (JNST):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

National Financial Services LLC (XSTM):
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May 2025

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	99.05	0.19	0.71	0.06

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	26.01	26.60	13.68	3.54	48.61	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	19.20	19.67	11.11	2.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	17.68	18.05	36.11	0.76	2.78	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	17.63	18.03	9.40	2.14	45.83	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	7.42	7.60	5.98	0.73	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	6.86	7.03	3.63	0.73	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	1.76	1.81	0.64	0.22	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	0.64	0.00	2.56	26.12	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	0.62	0.64	0.00	0.11	2.78	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.57	0.00	1.92	23.34	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

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May 2025

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	66.46	3.25	19.18	11.11

Venues

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Citadel Securities LLC (CDRG)	43.16	49.53	34.48	28.95	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	22.39	18.30	20.69	32.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	17.65	22.56	27.59	4.89	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	12.70	5.36	10.34	30.45	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Morgan Stanley & Company LLC (MSCO)	2.26	2.52	3.45	1.50	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	1.51	1.74	0.00	1.13	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.32	0.00	3.45	0.75	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

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June 2025

S&P 500 Stocks

Summary

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100.00	98.75	0.05	1.07	0.13

Venues

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Citadel Securities LLC (CDRG)	30.35	31.98	17.65	4.12	55.95	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	20.12	21.21	5.88	2.71	40.48	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	17.47	18.43	8.82	2.69	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	12.85	13.56	2.94	1.93	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	6.12	6.50	25.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	4.28	4.52	1.47	0.69	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	2.58	0.00	19.12	43.50	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

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NASDAQ Execution Services, LLC (NSDQ)	2.50	0.00	14.71	42.22	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	1.30	1.36	1.47	0.18	3.57	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	1.27	1.34	0.00	0.18	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

VIRTU Americas, LLC (NITE):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

G1 Execution Services, LLC (ETMM):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

HRT FINANCIAL LP (HRTF):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

National Financial Services LLC (XSTM):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

Jane Street Capital, LLC (JNST):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

New York Stock Exchange (NYSE):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

NASDAQ Execution Services, LLC (NSDQ):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

Two Sigma Securities, LLC (SOHO):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

UBS Securities, LLC (UBSS):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

June 2025

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	98.91	0.16	0.78	0.15

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	27.51	27.97	16.75	5.11	59.32	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	18.17	18.48	7.73	3.33	34.46	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	17.84	18.17	39.69	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	15.97	16.29	9.02	2.37	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	11.70	11.94	7.99	1.51	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	3.89	3.96	2.32	0.79	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	1.22	1.24	0.77	0.17	1.69	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	1.17	1.19	1.55	0.14	4.52	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.52	0.00	2.84	25.17	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	0.48	0.00	2.06	23.42	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

VIRTU Americas, LLC (NITE):

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National Financial Services LLC (XSTM):

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G1 Execution Services, LLC (ETMM):

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HRT FINANCIAL LP (HRTF):

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NASDAQ Execution Services, LLC (NSDQ):
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June 2025

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	65.83	5.97	17.82	10.38

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
Citadel Securities LLC (CDRG)	51.21	57.39	52.83	36.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	17.52	14.15	7.55	27.41	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	16.79	21.78	20.75	4.44	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	10.49	3.02	5.66	28.89	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	2.62	2.86	5.66	1.48	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Morgan Stanley & Company LLC (MSCO)	0.84	0.79	1.89	0.74	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.52	0.00	5.66	0.37	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):
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Dash Financial Technologies LLC (DASH):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

Susquehanna Capital Group (SUSQ):

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Wolverine Execution Services LLC (WEXX):

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Jane Street Capital, LLC (JNST):

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Morgan Stanley & Company LLC (MSCO):

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Interactive Brokers LLC (IBKR):

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