

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

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4th Quarter, 2025

October 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	99.17	0.07	0.62	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)
HRT FINANCIAL LP (HRTF)	25.37	25.94	22.47	3.49	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	17.60	17.88	14.61	3.72	60.32	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	16.81	17.18	5.62	2.77	0.79	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	11.49	11.70	3.37	2.09	37.30	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	8.65	8.85	5.62	1.22	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	7.66	7.85	17.98	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	4.91	5.02	2.25	0.95	0.79	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	4.38	4.47	3.37	0.91	0.79	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Stock Market (NSDQ)	0.95	0.00	13.48	39.85	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)	0.93	0.00	11.24	39.12	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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

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):
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.

UBS Securities, LLC (UBSS):
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.

NASDAQ Stock Market (NSDQ):
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.

October 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	99.02	0.18	0.66	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)
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Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
National Financial Services LLC (XSTM)	22.35	22.73	47.74	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	21.23	21.65	11.90	2.90	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	14.67	14.88	8.13	2.84	55.92	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	13.96	14.24	7.53	2.16	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	9.72	9.88	2.86	1.41	39.81	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	7.28	7.43	3.77	1.03	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	4.23	4.33	1.05	0.41	1.42	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	3.64	3.71	1.96	0.32	2.84	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.73	0.00	1.51	37.47	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Stock Market (NSDQ)	0.41	0.00	1.51	20.64	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):

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.

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):

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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):

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.

Two Sigma Securities, LLC (SOHO):

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

October 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	68.00	2.82	22.28	6.91

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)	42.35	48.86	32.14	34.18	22.99	0	0.0000	0	0.0000	0	0.0000	0	0.0000
GLOBAL EXECUTION BROKERS, LP (GEBB)	18.74	22.86	28.57	10.44	12.64	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	17.33	14.86	21.43	18.04	33.33	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	13.35	3.71	7.14	31.01	28.74	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	7.60	9.29	0.00	6.01	2.30	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.35	0.00	10.71	0.32	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Unknown	0.27	0.43	0.00	0.00	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.

GLOBAL EXECUTION BROKERS, LP (GEBB):
MML Investor Services LLC did not receive any payment for orders routed to the venues listed above.

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

Wolverine Execution Services LLC (WEXX):

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.

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

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

November 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	99.23	0.05	0.64	0.08

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)
HRT FINANCIAL LP (HRTF)	20.90	21.40	10.45	2.71	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	20.34	20.82	11.94	3.04	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	15.36	15.65	7.46	3.87	49.15	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	10.30	10.51	7.46	1.35	47.46	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	10.24	10.50	2.99	0.87	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	7.46	7.64	23.88	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	6.24	6.38	7.46	1.11	1.69	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	5.31	5.43	2.99	0.72	1.69	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)	1.16	0.00	8.96	45.29	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Stock Market (NSDQ)	0.95	0.00	13.43	36.64	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

HRT FINANCIAL LP (HRTF):
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.

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):
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.

National Financial Services LLC (XSTM):
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.

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

November 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	99.06	0.22	0.63	0.09

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
National Financial Services LLC (XSTM)	21.81	22.10	48.15	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	17.91	18.24	8.15	2.02	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	17.11	17.40	9.54	2.66	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	13.19	13.35	8.62	3.51	52.63	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	8.67	8.79	4.00	1.81	42.98	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	8.55	8.70	4.46	1.10	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	5.26	5.35	2.92	0.64	3.51	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	4.58	4.66	2.62	0.60	0.88	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.61	0.00	0.92	35.66	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Stock Market (NSDQ)	0.43	0.00	0.62	25.25	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):

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

HRT FINANCIAL LP (HRTF):

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G1 Execution Services, LLC (ETMM):

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Citadel Securities LLC (CDRG):

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VIRTU Americas, LLC (NITE):

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Two Sigma Securities, LLC (SOHO):

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New York Stock Exchange (NYSE):

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NASDAQ Stock Market (NSDQ):
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November 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	54.35	4.42	24.25	16.98

Venues

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Citadel Securities LLC (CDRG)	36.47	48.03	20.69	38.10	20.59	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	20.04	12.07	20.69	18.18	32.72	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	17.31	2.62	0.00	22.94	34.93	0	0.0000	0	0.0000	0	0.0000	0	0.0000
GLOBAL EXECUTION BROKERS, LP (GEBB)	15.44	22.57	34.48	10.39	7.72	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	10.41	14.70	24.14	9.09	4.04	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.33	0.00	0.00	1.30	0.00	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):
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December 2025

S&P 500 Stocks

Summary

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100.00	99.46	0.03	0.44	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)
G1 Execution Services, LLC (ETMM)	19.61	19.91	12.50	2.92	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	16.65	16.91	2.08	2.38	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	16.39	16.60	6.25	3.06	54.55	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	13.63	13.82	8.33	1.63	43.64	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	13.16	13.37	6.25	2.04	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	7.72	7.84	27.08	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	5.41	5.50	4.17	0.54	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	4.33	4.40	2.08	0.61	1.82	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Goldman, Sachs & Co. LLC (GSCO)	0.95	0.97	2.08	0.07	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Stock Market (NSDQ)	0.83	0.00	8.33	48.64	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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

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Goldman, Sachs & Co. LLC (GSCO):
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December 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	99.30	0.13	0.49	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)
National Financial Services LLC (XSTM)	22.14	22.44	50.79	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	16.56	16.84	7.91	1.82	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
HRT FINANCIAL LP (HRTF)	13.82	14.04	6.92	1.95	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)
VIRTU Americas, LLC (NITE)	13.62	13.81	7.11	2.27	33.64	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	11.42	11.57	6.72	1.40	60.75	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	11.10	11.28	3.16	1.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	4.50	4.57	1.58	0.58	3.74	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	3.64	3.70	1.58	0.42	1.87	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Goldman, Sachs & Co. LLC (GSCO)	0.80	0.82	0.59	0.06	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	0.59	0.00	0.59	36.53	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):
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.

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

Citadel Securities LLC (CDRG):
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.

UBS Securities, LLC (UBSS):
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.

Goldman, Sachs & Co. LLC (GSCO):
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.

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	57.54	3.68	26.47	12.32

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)	43.64	57.05	47.37	33.33	20.69	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	16.01	10.58	15.79	19.18	27.59	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	14.60	2.88	0.00	25.57	32.18	0	0.0000	0	0.0000	0	0.0000	0	0.0000
GLOBAL EXECUTION BROKERS, LP (GEBB)	13.03	16.35	26.32	7.31	12.64	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	12.09	12.50	10.53	13.70	6.90	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Interactive Brokers LLC (IBKR)	0.63	0.64	0.00	0.91	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.

Dash Financial Technologies LLC (DASH):
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Wolverine Execution Services LLC (WEXX):
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GLOBAL EXECUTION BROKERS, LP (GEBB):
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