

Citigroup Global Markets Inc. (Institutional) - Held NMS Stocks and Options Order Routing Public Report

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3rd Quarter, 2024

July 2024

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
-	-	-	-	-

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)

July 2024

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
-	-	-	-	-

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)

July 2024

## 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	0.00	2.42	96.96	0.62

### 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)
MEMX LLC	16.41	2.61	3.02	16.84	0.79	0.00	0.0000	-16,932.82	-55.0464	10,519.61	31.1342	272.79	58.7909
MIAX PEARL, LLC	13.53	3.48	2.76	13.88	0.81	0.00	0.0000	-13,197.92	-55.7203	4,638.82	19.5335	102.76	29.6153
Cboe C2 Exchange, Inc.	9.95	2.61	2.39	10.14	10.24	0.00	0.0000	-19,289.16	-50.3752	3,156.96	13.8835	4,543.03	8.9965
Cboe BZX Exchange, Inc.	8.64	2.61	5.16	8.78	0.67	0.00	0.0000	-22,978.04	-52.6886	3,139.09	16.2076	200.90	51.3824
NYSE ARCA OPTIONS	7.41	1.74	3.56	7.49	9.94	0.00	0.0000	-13,670.74	-48.4280	7,836.20	26.3783	-13,659.95	-21.0691
MIAX Emerald, LLC	7.11	3.48	1.45	7.29	0.82	0.00	0.0000	-8,912.28	-54.4361	3,638.45	28.0918	130.14	30.1937
The NASDAQ Options Market LLC	5.84	1.74	8.33	5.81	0.67	0.00	0.0000	-34,152.80	-53.7797	-643.52	-3.1130	144.54	48.0216
Nasdaq GEMX, LLC	5.47	3.48	1.37	5.61	0.62	0.00	0.0000	-7,494.88	-50.5488	1,712.02	15.3118	42.78	22.5158
Cboe Exchange, Inc.	5.12	11.30	28.19	4.46	17.88	0.00	0.0000	-104,602.21	-72.6626	-35,698.41	-65.1847	-18,557.12	-35.0313
Nasdaq BX, Inc.	4.33	3.48	2.14	4.41	0.67	0.00	0.0000	-12,010.83	-48.5796	382.53	2.6118	23.74	8.7583
Nasdaq ISE, LLC	4.16	9.57	20.88	3.71	9.50	0.00	0.0000	-36,369.00	-50.7387	1,046.18	13.1463	4,701.96	18.2678
Miami International Securities Exchange, LLC	2.86	3.48	4.09	2.75	15.77	0.00	0.0000	-9,333.15	-20.5413	-1,497.59	-7.1185	30,910.04	14.8910

### Material Aspects:

#### MEMX LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.

The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>

WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.

MEMX Options (the "Exchange") has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Citi holds an ownership interest in MEMX, LLC. Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue. Citi also holds a board seat with MEMX Holdings LLC.

#### MIAX PEARL, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. MIAx Pearl Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period. Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAx"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

Cboe C2 Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. C2 has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Cboe BZX Exchange, Inc.:

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NYSE ARCA OPTIONS:

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MIAx Emerald, LLC:

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The NASDAQ Options Market LLC:

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Nasdaq GEMX, LLC:

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Nasdaq BX, Inc.: Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ BX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

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# August 2024

## S&P 500 Stocks

### Summary

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-	-	-	-	-

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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)

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August 2024

Options

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100.00	0.00	2.16	97.11	0.73

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)
MEMX LLC	20.91	2.27	2.86	21.46	1.62	0.00	0.0000	-16,854.70	-55.8639	13,559.92	40.5452	798.34	97.8358

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)
MIAX PEARL, LLC	14.85	2.27	2.63	15.23	0.93	0.00	0.0000	-12,129.72	-55.1928	3,901.67	16.5620	41.68	58.7042
Cboe C2 Exchange, Inc.	9.95	2.27	2.40	10.12	9.60	0.00	0.0000	-17,055.61	-48.5058	3,999.80	21.8044	-707.76	-2.5862
Cboe BZX Exchange, Inc.	8.27	2.27	3.98	8.42	0.79	0.00	0.0000	-16,861.34	-49.6345	4,452.04	21.9000	33.24	43.1623
NYSE ARCA OPTIONS	6.96	2.27	3.10	7.03	9.37	0.00	0.0000	-12,626.11	-41.2375	9,616.92	29.4519	-8,035.84	-22.7431
MIAX Emerald, LLC	6.53	2.27	1.48	6.68	0.75	0.00	0.0000	-7,841.40	-55.3458	3,010.70	24.3014	51.32	64.9557
Cboe Exchange, Inc.	5.98	9.09	31.20	5.33	18.46	0.00	0.0000	-94,560.58	-69.1429	-39,516.26	-64.4564	-46,428.76	-45.5724
The NASDAQ Options Market LLC	5.15	2.27	7.00	5.14	0.99	-1.79	-89.5000	-30,972.82	-54.2583	1,261.17	7.9669	-96.74	-39.9752
Nasdaq GEMX, LLC	4.57	2.27	1.43	4.67	0.63	0.00	0.0000	-8,692.26	-50.2297	1,745.92	18.3010	35.36	38.4348
Nasdaq BX, Inc.	3.44	2.27	2.18	3.49	0.53	0.00	0.0000	-11,450.76	-47.5116	435.98	4.1749	41.66	66.1349
Nasdaq ISE, LLC	3.27	2.27	15.76	2.95	9.42	0.00	0.0000	-35,267.22	-50.9929	-9.70	-0.1217	17,595.03	17.0832
Miami International Securities Exchange, LLC	2.47	2.27	4.49	2.32	15.92	0.00	0.0000	-10,089.48	-22.0955	-181.72	-0.5617	26,188.74	10.0600

## Material Aspects:

### MEMX LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.

The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>

WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.

MEMX Options (the "Exchange") has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Citi holds an ownership interest in MEMX, LLC. Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue. Citi also holds a board seat with MEMX Holdings LLC.

### MIAX PEARL, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.

The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>

WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.

MIAX Pearl Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

### Cboe C2 Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. C2 has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Cboe BZX Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. CBOE BZX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

NYSE ARCA OPTIONS:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NYSE ARCA Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

MIAX Emerald, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. MIAX Emerald Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period. Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

Cboe Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. CBOE has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

The NASDAQ Options Market LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ NOM has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Nasdaq GEMX, LLC:

Nasdaq BX, Inc.:  
Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ BX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Miami International Securities Exchange, LLC:  
Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>  
WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.  
MIAX Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.  
Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

## 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
-	-	-	-	-

[illegible]



September 2024

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
-	-	-	-	-

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)

September 2024

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	0.00	3.15	95.32	1.52

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)
MEMX LLC	17.67	3.03	2.72	18.44	0.56	0.00	0.0000	-18,232.54	-52.8403	11,874.65	39.2110	208.89	91.6184
MIAX PEARL, LLC	13.53	3.03	3.04	14.08	0.41	0.00	0.0000	-14,870.92	-58.3265	3,355.84	14.4754	10.38	17.5847
Cboe C2 Exchange, Inc.	9.83	3.03	2.03	10.10	8.99	0.00	0.0000	-19,286.28	-49.6225	3,848.70	25.1467	11,532.54	11.9880
Cboe BZX Exchange, Inc.	8.10	3.03	4.30	8.35	0.68	0.00	0.0000	-17,077.26	-51.1234	3,138.88	18.5788	1.92	38.5000
NYSE ARCA OPTIONS	7.09	4.04	3.24	7.19	9.19	0.00	0.0000	-14,390.92	-46.4508	6,787.96	25.1509	-5,933.41	-5.1437
Cboe Exchange, Inc.	6.90	14.14	30.61	5.98	15.27	0.00	0.0000	-87,630.67	-70.8132	-40,646.99	-66.5395	-40,700.24	-34.1594

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)
MIAX Emerald, LLC	5.94	3.03	1.32	6.18	0.42	0.00	0.0000	-7,071.62	-53.7153	2,166.72	21.2299	45.10	22.0024
Nasdaq GEMX, LLC	4.79	3.03	1.17	4.98	0.30	0.00	0.0000	-7,432.42	-48.2124	1,245.30	15.0108	22.40	57.4231
The NASDAQ Options Market LLC	4.73	5.05	7.35	4.71	0.97	0.00	0.0000	-29,385.22	-54.0885	568.38	5.3338	0.82	5.5000
Nasdaq ISE, LLC	3.83	2.02	15.90	3.35	8.85	0.00	0.0000	-32,481.16	-50.7233	432.16	5.0404	9,077.62	18.5413
Nasdaq BX, Inc.	3.71	5.05	1.92	3.82	0.43	0.00	0.0000	-12,498.00	-49.8206	-299.71	-3.4019	0.26	2.0385
Miami International Securities Exchange, LLC	3.01	1.01	4.48	2.76	15.42	0.00	0.0000	-10,389.34	-21.3790	-2,163.78	-3.8809	30,116.14	12.3533
Cboe EDGX Exchange, Inc.	2.57	3.03	2.99	2.43	11.06	-0.04	-4.5000	-7,587.50	-28.4186	-1,318.18	-21.9075	11,056.84	36.8476

## Material Aspects:

**MEMX LLC:**  
Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.  
The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>  
WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.  
MEMX Options (the "Exchange") has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.  
Citi holds an ownership interest in MEMX, LLC. Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue. Citi also holds a board seat with MEMX Holdings LLC.

**MIAX PEARL, LLC:**  
Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.  
The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>  
WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.  
MIAX Pearl Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.  
Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

**Cboe C2 Exchange, Inc.:**  
Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity.  
The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets>  
WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>.  
C2 has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

**Cboe BZX Exchange, Inc.:**

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. CBOE BZX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

#### NYSE ARCA OPTIONS:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NYSE ARCA Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

#### Cboe Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. CBOE has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

#### MIAX Emerald, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. MIAX Emerald Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period. Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

#### Nasdaq GEMX, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ Gemini has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

#### The NASDAQ Options Market LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ NOM has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

#### Nasdaq ISE, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ ISE has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Nasdaq BX, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. NASDAQ BX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.

Miami International Securities Exchange, LLC:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. MIAX Options Exchange has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period. Citi holds an ownership interest in Miami International Holdings, Inc. ("MIAX"). Because CGMI holds an ownership interest in the venue noted above, CGMI stands to share in any profits derived from the execution of CGMI's customer orders on the venue.

Cboe EDGX Exchange, Inc.:

Citigroup Global Markets Inc. ("CGMI") Institutional Business, in its efforts to seek best execution uses Wolverine Execution Services LLC ("WEX") as an electronic market access and execution service broker dealer to access all US listed equity options exchanges. CGMI does not receive payment for order flow or provide payment for order flow to its clients for US listed equity option activity. CGMI pays WEX a fixed fee per-contract. WEX may pass through to CGMI certain fees and/or rebates from exchanges that WEX receives based on the volume tiers reached at such exchanges ("pass-through fees and/or rebates"). The fees and/or rebates from exchanges that WEX receives ("exchange fees and/or rebates") may vary depending on WEX's overall trading volumes from their clients in the aggregate, including CGMI. Any options exchange at its sole discretion may also add, remove, and change both volume tiers and/or exchange fees and rebates month-to-month with the approval from the SEC. The portion of the exchange fees and/or rebates that WEX passes through to CGMI as pass-through fees and/or rebates, if any, is determined based on WEX's overall trading volumes at the exchanges that are attributable to CGMI trading activity. The pass-through fees and/or rebates that WEX passes through to Citi may be found as part of Citi's 606(a)(1) public posting: <https://www.citigroup.com/global/disclosures/markets> WEX's 606 disclosure may be found here: <https://www.tradewex.com/Home/Rule606>. EDGX has tiered pricing/rebate schedules. Details of the Exchange's incentive programs (e.g. rebate/fee schedule and tiered pricing) may be available on the Exchange's public website. Note that the information presented on the Exchange's public website may change at any time without notice, and accordingly, may not present the historical rebate/fee schedule or tiered pricing that applied during the reporting period.