 as held or not held. For clients wanting more detalied reports specfied in SEC Rule 606 on the routing of their orders sent to the firm for options or equities, please
1st Quarter, 2022
January 202
Options


| Venue - Non-directed Order Flow | Non-Directed <br> Orders (\%) | Market Orders (\%) | Marketable Limit Orders (\%) | Non-Marketable Limit Orders (\%) | Other Orders (\%) | Net Payment <br> Paid/Received for <br> Market Orders(USD) | Net Payment Paid/Received for Market Orders(cents per hundred shares) | Net Payment <br> Paid/Received for Marketable Lim Orders Orders(USD) | Net Payment Paid/Received for Marketable LLimit Orderscents per hundred shares) | Paid/Received for Non- <br> Marketable Limit <br> Orders(USD) | Net Payment Paid/Received <br> for Non-Marketable Limit <br> Orders(cents per hundred <br> shares) | Net Payment Paid/Received for Other Orders(USD) | $\begin{array}{\|l\|} \begin{array}{l} \text { Net Payment } \\ \text { Paid/Received for Other } \\ \text { Orders(cents per } \\ \text { hundred shares) } \end{array} \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boston Options Exchange | 26.19\% | 98.68\% | 1.32\% | 0.00\% | 0.00\% | 571.80 | ${ }^{0.0328}$ | 1.15 | 0.0500 | 0.00 | 0.00 |  | 0.00 |
| Interational Securrites Exchange | 19.81\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 927.10 | 0.0704 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Mamil International Securtites Exchange | 16.84\% | 99.75\% | 0.25\% | 0.00\% | 0.00\% | 566.05 | 0.0500 | ${ }^{3.30}$ | ${ }_{0} 0.0500$ | 0.00 | 0.00 | 0.00 | 0.00 |
| Chicago Board Options Exchange | 13.79\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 1,225.69 | ${ }^{0.1337}$ |  |  |  | 0.00 | 0.00 |  |
| NVSE Arca | 8.37\% | 98.65\% | 1.35\% | 0.00\% | 0.00\% | (2,061.24) | [0.3703) | (188.49) | (0.4160) | 0.00 | 0.00 | 0.00 | 0.00 |
| Cboe Bats | 2.88\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 789.10 | 0.4127 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Philadelphia Stock Exchange | 2.28\% | 100.0\%\% | 0.00\% | 0.00\% | 0.00\% | 89.05 | 0.0587 |  |  | 0.00 | 0.00 | 0.00 |  |
| Cboe EDGX | 1.53\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | [202.62] | [0.1988) |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| NYSE Amex | 1.51\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 49.77 | 0.0495 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| CEE Mercy | 1.48\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 49.30 | 0.0500 |  |  | 0.00 | 0.00 | 0.00 |  |
| NASD NOM | 1.19\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | (74.12) | (0.0938) |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| MIax Pearl | 1.03\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 374.97 | 0.5448 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Cboe C2 | 1.02\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 318.90 | 0.4690 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| SEE Gemini | 0.63\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 221.54 | 0.5300 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| MIAX Emerald | 0.48\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 96.50 | 0.3016 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| NASS BX | 0.14\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | ${ }^{48.45}$ | 0.5100 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |

## February 2021



| Venue - Non-directed Order Flow | Non-Directed Orders (\%) | Marke Orders (\%) | $\begin{array}{\|l\|} \begin{array}{l} \text { Marketable Limit } \\ \text { Orders (\%) } \end{array} \\ \hline \end{array}$ | Non-Marketable Limit Orders (\%) | Other Orders (\%) | Net Payment <br> Paid/Received for <br> Market Orders(USD) | Net Payment Paid/Received for per hundred shares er hundred shares) | $\begin{aligned} & \text { Paid/Received for } \\ & \text { Marketable Limit } \\ & \text { Orders(USD) } \end{aligned}$ | Net Payment Paid/Receeved for marketable ilimit Orderstent shares | Paid/Received for NonMarketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundre shares) | Net Payment <br> Paid/Received for <br> Other Orders(USD) | Paid/Received for Other <br> Orders(cents pe <br> hundred shares) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boston Option Exchange | 18.05\% | 99.65\% | 0.35\% | 0.00\% | 0.00\% | 753.92 | 0.052 | [0.15] | [0.150] | 0.00 | 0.00 | 0.00 | 0.00 |
| NYSE Arca | 13.62\% | 86.35\% | ${ }^{13.65 \%}$ | 0.00\% | 0.00\% | [3,587.25] | (0.331) | 283.24 | 0.165 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chicago Board Options Exchange | 12.99\% | 95.57\% | 4.43\% | 0.00\% | 0.00\% | 494.25 | 0.048 | 25.15 | 0.053 | 0.00 | 0.00 | 0.00 | - 0.00 |
| Interrational Securrites Exchange | 11.25\% | 99.89\% | ${ }^{0.11 \%}$ | 0.00\% | 0.00\% | ${ }^{471.62}$ | 0.053 | 1.98 | 0.198 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mlamil interational Securties Exchange | 10.52\% | 96.18\% | 3.82\% | 0.00\% | 0.00\% | 418.35 | 0.050 | 16.60 | 0.050 | 0.00 | 0.00 | 0.00 | 0 |
| cboe Bats | 4.56\% | 74.16\% | 25.84\% | 0.00\% | 0.00\% | 440.65 | 0.121 | ${ }^{620.75}$ | 0.491 | 0.00 | 0.00 | 0.00 | 0.00 |
| Philadelphia Stock Exchange | 2.97\% | 98.46\% | 1.54\% | 0.00\% | 0.00\% | 86.55 | 0.037 | 1.85 | 0.050 | 0.00 | 0.00 | 0.00 | 0.00 |
| ICE Mercy | 2.75\% | 99.64\% | 0.36\% | 0.00\% | 0.00\% | 109.35 | ${ }^{0.050}$ | 0.40 | ${ }^{0.050}$ | 0.00 | 0.00 | 0.00 | 0.00 |
| Cboe C2 | 2.72\% | 52.59\% | ${ }^{47.41 \%}$ | 0.00\% | 0.00\% | ${ }^{724.70}$ | 0.335 | 933.04 | 0.480 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cboe EDGX | 1.92\% | 86.99\% | 13.01\% | 0.00\% | 0.00\% | (220.40) | (0.145) | 9.12 | 0.040 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYSE Amex | 1.55\% | 99.04\% | 0.96\% | 0.00\% | 0.00\% | 50.47 | 0.041 | 0.60 | 0.050 | 0.00 | 0.00 | 0.00 | 0 |
| ISE Gemini | 1.47\% | 72.11\% | 27.89\% | 0.00\% | 0.00\% | 619.67 | ${ }^{0.529}$ | ${ }^{240.09}$ | ${ }^{0.530}$ | 0.00 | 0.00 | 0.00 | 0.00 |
| Max Pear | 1.33\% | 47.10\% | 52.90\% | 0.00\% | 0.00\% | 579.80 | 0.549 | 655.30 | 0.550 | 0.00 | 0.00 | 0.00 | 0.00 |
| NASD NOM | 1.01\% | 61.2\% | 38.78\% | 0.00\% | 0.00\% | ${ }^{434.70}$ | 0.540 | 275.40 | 0.540 | 0.00 | 0.00 | 0.00 | 0.00 |
| MIAX Emerald | 0.82\% | 37.71\% | 62.29\% | 0.00\% | 0.00\% | ${ }^{347.10}$ | 0.532 | 5923 | 0.550 | 0.00 | 0.00 | 0.00 | 0.00 |
| NASD BX | 0.33\% | ${ }^{41.11 \%}$ | 58.89\% | 0.00\% | 0.00\% | 131.94 | 0.509 | 189.21 | 0.510 | 0.00 | 0.00 | 0.0 | 0.00 |

March 202

| Non-Directed Orders as \% of All orde | Market Orders as \% of Non-Directed Orders | Marketable Limit Orders <br> as \% of Non-Directed <br> Orders | Non-Marketable Limit Orders as \% of NonDirected Orders | Other Orders as \% of Non-Directed Orders |
| :---: | :---: | :---: | :---: | :---: |
|  | 97.82\% | 2.18\% | 0.00 |  |


| Venue - Non-directed Order Flow | $\begin{aligned} & \text { Non-Directed } \\ & \text { Orders (\%) } \\ & \hline \end{aligned}$ | Market Orders (\%) | $\begin{aligned} & \text { Marketable Limit } \\ & \text { Orders (\%) } \end{aligned}$ | Non-Marketable Limit Orders (\%) | Other Orders (\%) | Net Payment <br> Paid/Received for Market Orders(USD) | Net Payment Paid/Received for Market Ordersicents per hundred shares |  | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred <br> Orders( shares) | Paid/Received for NonMarketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders( shares) <br> shares) | Net Payment <br> Paid/Received for Other Orders(USD) <br> Other Orders(USD) | Paid/Received for Other <br> Orders(cents per <br> hundred shares) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boston Options Exchange | 22.92\% | 99.88\% | 0.12\% | 0.00\% | 0.00\% | ${ }^{523.30}$ | 0.0292 | ${ }^{(0.35)}$ | [0.0167] | 0.00 | 0.00 | 0.00 | 0.00 |
| Chicago Board Options Exchange | 17.62\% | 99.94\% | 0.06\% | 0.00\% | 0.00\% | ${ }^{1,312,64}$ | 0.0952 | 0.42 | 0.0525 | 0.00 | 0.00 | 0.00 | 0.00 |
| Intermational Securities Exchange | 12.72\% | 98.48\% | 1.52\% | 0.00\% | 0.00\% | 1,118.53 | 0.1124 | 114.50 | 0.7435 | 0.00 | 0.00 | 0.00 | - 0.00 |
| NYSE Arca | 12.20\% | 96.91\% | 3.09\% | ${ }^{0.00 \%}$ | 0.00\% | (1,084,57) | ${ }^{[0.1136]}$ | [228,75) | ${ }^{[0,7500]}$ | 0.00 | 0.00 | 0.00 | 0.00 |
| Mlami International Securties Exchange | 10.06\% | 97.98\% | 2.02\% | 0.00\% | 0.00\% | ${ }^{393.50}$ | 0.0500 | 8.10 | 0.0500 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cboe EDGX | 4.51\% | 99.94\% | 0.06\% | 0.00\% | 0.00\% | (200.84) | [0.0569] | 0.08 | 0.0400 | 0.00 | 0.00 | 0.00 | 0.00 |
| IIE Mercy | 4.07\% | 98.64\% | ${ }^{1.36 \%}$ | 0.00\% | 0.00\% | 159.10 | ${ }^{0.0500}$ | ${ }^{2.20}$ | 0.0500 | 0.00 | 0.00 | 0.00 | 0.00 |
| cboe Bats | ${ }^{3.27 \%}$ | 100.00\% | 0.00\% | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }^{1.071 .35}$ | 0.4193 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Philadelphia Stock Exchange | 2.90\% | 69.40\% | 30.60\% | 0.00\% | 0.00\% | 113.40 | 0.0500 | 60.00 | ${ }^{0.0600}$ | 0.00 | 0.00 | 0.00 | 0.00 |
| NYSEAmex | 1.94\% | 99.41\% | ${ }^{0.59 \%}$ | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }^{655.67}$ | 0.0433 | 0.21 | 0.0233 | 0.00 | 0.00 | 0.00 | 0.00 |
| Naso NOM | 1.72\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 725.22 | 0.5400 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| cboe ${ }^{\text {che }}$ | ${ }^{1.30 \%}$ | 100.00\% | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }^{469.04}$ | ${ }^{0.4598}$ |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Max Pearl | ${ }^{1.27 \%}$ | 100.00\% | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }^{0.00 \%}$ | ${ }_{544.38}$ | 0.5499 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| ISE Gemini | 0.75\% | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 297.95 | 0.5111 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Max Emerald | 0.36\% | 100.00\% | 0.000 | 0.00\% | 0.00\% | ${ }^{136.45}$ | 0.4891 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| NASOBX | $0.24 \%$ | 100.00\% | 0.00\% | 0.00\% | 0.00\% | 96.90 | 0.5100 |  |  | 0.00 | 0.00 | 0.00 | 0.00 |

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