Charles Schwab - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2020

October 2020

S&P 500 Stocks

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.65 | 52.85 | 4.81 | 33.81 | 8.53 |

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 Execution Services | 30.36 | 31.61 | 30.06 | 27.05 | 35.90 | 244,200.84 | 8.8085 | 54,630.73 | 8.9860 | 370,002.48 | 29.9183 | 33,072.54 | 9.9530 |
| Virtu Americas, LLC | 28.50 | 27.98 | 25.49 | 26.13 | 42.90 | 226,828.12 | 8.9903 | 51,494.17 | 9.0000 | 225,864.27 | 30.0000 | 18,854.96 | 4.4579 |
| G1 Execution Services, LLC | 22.67 | 23.27 | 25.56 | 23.98 | 12.08 | 184,457.68 | 9.0000 | 38,769.68 | 9.0000 | 212,931.59 | 30.0000 | 28,382.23 | 13.3212 |
| UBS Securities, LLC | 13.60 | 12.58 | 14.04 | 16.64 | 7.64 | 82,376.85 | 8.9999 | 39,154.89 | 9.1709 | 106,837.99 | 27.6927 | 22,060.72 | 13.4538 |
| Two Sigma Securities, LLC | 4.18 | 4.53 | 4.81 | 4.29 | 1.24 | 41,606.64 | 9.0000 | 9,586.32 | 9.0000 | 37,769.08 | 28.2129 | 1,735.21 | 9.0000 |
| Cboe EDGX Exchange, Inc. | 0.39 | 0.04 | 0.03 | 1.04 | 0.15 | -0.30 | -0.0043 | -2,145.97 | -28.2131 | 7,507.02 | 26.6356 | 0.00 | 0.0000 |
| Nasdaq Execution Services, LLC | 0.30 | 0.00 | 0.01 | 0.87 | 0.08 | 0.00 | 0.0000 | -14.88 | -30.0000 | 6,490.68 | 33.0000 | -49.56 | -19.3171 |

Material Aspects:

Citadel Execution Services:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Virtu Americas, LLC:

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Two Sigma Securities, LLC:

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October 2020

Non-S&P 500 Stocks

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.41 | 48.77 | 6.35 | 34.79 | 10.09 |

| 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 Execution Services | 29.59 | 30.09 | 29.96 | 27.17 | 35.24 | 689,614.43 | 8.2340 | 206,543.06 | 7.1744 | 814,808.31 | 26.8378 | 97,136.71 | 7.6595 |
| Virtu Americas, LLC | 27.81 | 25.72 | 25.70 | 26.33 | 44.35 | 636,775.91 | 8.2775 | 194,840.44 | 7.3083 | 727,439.73 | 26.6826 | 37,551.06 | 2.1609 |
| G1 Execution Services, LLC | 23.51 | 25.41 | 25.44 | 23.92 | 11.71 | 559,319.53 | 8.3921 | 155,257.56 | 7.4356 | 745,029.26 | 26.6040 | 71,555.83 | 12.2109 |
| UBS Securities, LLC | 14.10 | 13.77 | 13.96 | 16.52 | 7.44 | 232,130.10 | 8.3476 | 126,830.28 | 7.8311 | 336,259.26 | 22.6235 | 61,550.05 | 11.9033 |
| Two Sigma Securities, LLC | 4.29 | 4.94 | 4.86 | 4.20 | 1.09 | 114,005.00 | 8.3277 | 34,790.55 | 7.2725 | 118,395.42 | 24.9826 | 5,841.64 | 8.5883 |
| Cboe EDGX Exchange, Inc. | 0.40 | 0.06 | 0.07 | 1.04 | 0.09 | -0.67 | -0.0044 | -10,411.95 | -25.0957 | 19,392.07 | 22.8422 | 0.00 | 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) |
|---------------------------------------|--------------------------------|-------------------------|-----------------------------------|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| Nasdaq Execution Services, LLC | 0.29 | 0.00 | 0.01 | 0.82 | 0.08 | 0.00 | 0.0000 | -50.85 | -29.9294 | 16,628.74 | 31.1375 | -145.73 | -23.8302 |

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October 2020

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 | 16.06 | 6.74 | 49.10 | 28.10 |

| Venue - Non-directed Order Flow | Non- Directed 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) | |
|---------------------------------------|------------------------------------|--|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|--|
|---------------------------------------|------------------------------------|--|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|--|

| 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 Execution Services | 35.14 | 33.29 | 34.23 | 33.81 | 38.74 | 1,038,727.20 | 34.2349 | 843,638.80 | 35.3964 | 1,053,372.90 | 36.4288 | 709,366.90 | 29.7116 |
| Global Execution Brokers LP | 30.23 | 29.98 | 30.05 | 29.64 | 31.45 | 1,350,445.25 | 35.9426 | 388,527.13 | 34.3847 | 1,063,292.85 | 38.0296 | 757,506.07 | 36.7572 |
| Wolverine Execution Services, LLC | 18.26 | 19.34 | 18.65 | 20.09 | 14.34 | 586,180.40 | 35.4614 | 440,255.10 | 37.4041 | 690,697.00 | 40.2142 | 407,067.20 | 36.0991 |
| Dash Financial Technologies, LLC | 9.17 | 12.85 | 11.95 | 10.34 | 4.36 | 429,962.00 | 32.9652 | 258,177.40 | 34.0082 | 346,865.60 | 34.8941 | 124,047.76 | 35.5471 |
| Morgan Stanley & Co., LLC | 7.20 | 4.55 | 5.12 | 6.11 | 11.11 | 161,505.10 | 39.5241 | 162,416.30 | 42.6647 | 206,138.20 | 44.9350 | 269,492.80 | 35.9324 |

Citadel Execution Services:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Global Execution Brokers LP:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Wolverine Execution Services, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Dash Financial Technologies, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue. Dash has agreements with unaffiliated market makers, designed to facilitate liquidity provision and price improvement opportunities to Dash's retail equity option clients.

Morgan Stanley & Co., LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

November 2020

S&P 500 Stocks

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.72 | 54.18 | 4.84 | 32.33 | 8.66 |

| Venue - Non-directed Order Flow | | Non-Oth Marketable Limit Orders (% | ders Paid/Received for | 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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|---------------------------------------|--------------------------------|-------------------------|-----------------------------------|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| Citadel Execution Services | 30.29 | 31.34 | 29.93 | 27.15 | 35.67 | 249,395.33 | 8.8797 | 50,805.86 | 8.9554 | 343,112.73 | 29.8269 | 33,405.67 | 9.0713 |
| Virtu Americas, LLC | 27.92 | 27.20 | 24.71 | 25.67 | 42.65 | 222,780.06 | 8.9902 | 48,293.15 | 9.0000 | 227,120.34 | 30.0000 | 22,496.10 | 4.4830 |
| G1 Execution Services, LLC | 22.96 | 23.78 | 25.61 | 24.06 | 12.20 | 190,025.54 | 9.0000 | 38,143.34 | 9.0000 | 214,383.24 | 30.0000 | 30,518.98 | 13.9131 |
| UBS Securities, LLC | 13.74 | 12.94 | 14.01 | 16.64 | 7.81 | 84,566.11 | 8.5666 | 43,502.56 | 8.7376 | 109,978.60 | 26.5874 | 26,282.05 | 12.8115 |
| Two Sigma Securities, LLC | 4.27 | 4.69 | 4.83 | 4.27 | 1.31 | 42,129.21 | 9.0003 | 8,981.76 | 9.0001 | 37,193.23 | 28.4001 | 4,779.45 | 12.2306 |
| Cboe EDGX Exchange, Inc. | 0.43 | 0.05 | 0.91 | 1.06 | 0.19 | -0.46 | -0.0066 | -3,626.19 | -27.8332 | 7,945.47 | 25.4530 | 0.00 | 0.0000 |
| Nasdaq Execution Services, LLC | 0.39 | 0.00 | 0.01 | 1.15 | 0.17 | 0.00 | 0.0000 | -34.05 | -29.9472 | 9,118.76 | 33.0000 | -68.05 | -24.9065 |

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Non-S&P 500 Stocks

Summary

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|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.48 | 49.03 | 6.24 | 34.13 | 10.59 |

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 Execution Services | 29.73 | 30.12 | 30.12 | 27.25 | 35.67 | 773,398.35 | 7.9644 | 232,429.44 | 7.2591 | 949,800.31 | 25.9262 | 121,772.93 | 6.9652 |
| Virtu Americas, LLC | 27.26 | 24.99 | 24.99 | 25.53 | 44.72 | 690,745.43 | 7.9804 | 216,653.23 | 7.2766 | 811,028.90 | 25.9886 | 45,299.49 | 2.0114 |
| G1 Execution Services, LLC | 23.59 | 25.75 | 25.52 | 24.01 | 11.14 | 631,307.15 | 8.2020 | 174,192.23 | 7.6194 | 864,701.35 | 26.0902 | 86,787.86 | 12.6638 |
| UBS Securities, LLC | 14.19 | 14.03 | 14.15 | 16.62 | 7.15 | 270,257.38 | 7.8163 | 161,741.96 | 7.5289 | 399,232.60 | 20.8521 | 77,177.51 | 11.6871 |
| Two Sigma Securities, LLC | 4.37 | 5.08 | 4.98 | 4.26 | 1.11 | 133,401.71 | 8.0028 | 40,775.96 | 7.4435 | 135,042.11 | 25.1887 | 10,544.32 | 11.2942 |
| Cboe EDGX Exchange, Inc. | 0.44 | 0.03 | 0.24 | 1.16 | 0.11 | -0.98 | -0.0147 | -4,068.20 | -25.8311 | 27,028.70 | 26.5408 | 0.00 | 0.0000 |
| Nasdaq Execution Services, LLC | 0.41 | 0.00 | 0.01 | 1.18 | 0.10 | 0.00 | 0.0000 | -95.39 | -29.8629 | 28,109.82 | 31.0221 | -284.73 | -23.0126 |

Material Aspects:

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UBS Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Two Sigma Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Cboe EDGX Exchange, Inc.:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Nasdaq Execution Services, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

November 2020

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 | 16.46 | 6.73 | 49.96 | 26.86 |

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 Execution Services | 34.51 | 33.19 | 33.13 | 33.00 | 38.48 | 1,055,349.60 | 35.0790 | 877,755.90 | 36.9997 | 1,089,087.50 | 37.7254 | 708,244.20 | 31.4374 |
| Global Execution Brokers LP | 30.27 | 30.02 | 29.96 | 29.53 | 31.85 | 1,362,269.01 | 37.0693 | 390,508.04 | 35.3284 | 1,176,084.12 | 39.2736 | 736,739.25 | 37.5852 |
| Wolverine Execution Services, LLC | 18.54 | 19.01 | 19.42 | 20.60 | 14.20 | 633,833.40 | 36.9347 | 488,478.70 | 39.6640 | 778,024.40 | 41.4637 | 402,412.20 | 36.8774 |
| Dash Financial Technologies, LLC | 9.23 | 12.79 | 11.86 | 10.34 | 4.32 | 444,359.20 | 33.6379 | 272,159.50 | 35.0464 | 371,840.50 | 35.4765 | 116,850.54 | 35.4012 |
| Morgan Stanley & Co., LLC | 7.45 | 4.99 | 5.63 | 6.52 | 11.14 | 182,974.70 | 42.0366 | 192,404.10 | 46.1748 | 238,973.10 | 45.5014 | 261,926.50 | 35.9809 |

Material Aspects:

Citadel Execution Services:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Global Execution Brokers LP:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Wolverine Execution Services, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Dash Financial Technologies, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue. Dash has agreements with unaffiliated market makers, designed to facilitate liquidity provision and price improvement opportunities to Dash's retail equity option clients.

Morgan Stanley & Co., LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

December 2020

S&P 500 Stocks

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.77 | 56.12 | 4.78 | 31.56 | 7.54 |

Venues

| Venue - Non-directed Order Flow | Non- Directed Orders (%) | Market Orders (%) | Marketable Limit Orders (%) | Non- Marketable Limit Orders (%) | Other Orders (%) | Net Payment Paid/Received for Market Orders(USD) | Net Payment Paid/ Received for Market Orders(cents per hundred shares) | Net Payment Paid/ Received for Marketable Limit Orders(USD) | Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/ Received for Non- Marketable Limit Orders(USD) | Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/ Received for Other Orders(cents per hundred shares) |
|---------------------------------------|--------------------------------|-------------------------|-----------------------------------|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| Citadel Execution Services | 31.08 | 32.02 | 30.36 | 27.32 | 40.32 | 244,557.53 | 8.8804 | 52,488.89 | 8.8727 | 316,895.37 | 29.7790 | 47,642.02 | 9.8959 |
| Virtu Americas, LLC | 26.73 | 26.75 | 24.17 | 24.83 | 36.12 | 216,986.51 | 8.9877 | 45,355.13 | 9.0000 | 210,201.42 | 30.0000 | 16,880.91 | 4.8608 |
| G1 Execution Services, LLC | 22.66 | 23.09 | 25.32 | 23.82 | 13.02 | 193,589.98 | 9.0000 | 40,042.40 | 9.0000 | 217,049.60 | 30.0000 | 28,613.75 | 13.8698 |
| UBS Securities, LLC | 13.99 | 13.05 | 14.46 | 16.87 | 8.66 | 92,922.82 | 8.9999 | 43,648.72 | 9.1295 | 118,186.65 | 28.1209 | 24,688.94 | 13.7245 |
| Two Sigma Securities, LLC | 4.68 | 5.03 | 5.38 | 4.70 | 1.57 | 46,724.50 | 9.0003 | 9,531.72 | 9.0041 | 43,974.58 | 28.5240 | 4,186.12 | 11.5826 |
| Cboe EDGX Exchange, Inc. | 0.54 | 0.07 | 0.28 | 1.50 | 0.21 | -4.04 | -0.0232 | -8,717.96 | -29.2589 | 7,539.41 | 14.5043 | 0.00 | 0.0000 |
| Nasdaq Execution Services, LLC | 0.31 | 0.00 | 0.03 | 0.96 | 0.11 | 0.00 | 0.0000 | -17.89 | -30.0000 | 7,757.47 | 33.0000 | -73.35 | -15.0428 |

Material Aspects:

Citadel Execution Services:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Virtu Americas, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

G1 Execution Services, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

UBS Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Two Sigma Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Cboe EDGX Exchange, Inc.:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Nasdaq Execution Services, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

December 2020

Non-S&P 500 Stocks

Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non- Directed Orders | Non-Marketable Limit Orders as % of Non- Directed Orders | Other Orders as % of Non-Directed Orders |
|-------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| 99.51 | 48.80 | 6.47 | 34.65 | 10.08 |

| 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 Execution Services | 30.46 | 30.44 | 30.58 | 27.54 | 40.55 | 884,999.23 | 7.9543 | 283,021.19 | 7.5508 | 1,108,003.61 | 26.0547 | 170,281.36 | 6.6512 |
| Virtu Americas, LLC | 26.21 | 24.42 | 24.59 | 25.19 | 39.43 | 774,616.11 | 7.9321 | 258,892.03 | 7.3215 | 932,653.83 | 26.2408 | 44,021.11 | 1.8911 |
| G1 Execution Services, LLC | 23.12 | 25.22 | 24.61 | 23.38 | 11.07 | 709,141.17 | 8.0923 | 207,854.24 | 7.5876 | 981,742.82 | 26.0924 | 87,747.18 | 12.2234 |
| UBS Securities, LLC | 14.56 | 14.36 | 14.64 | 16.90 | 7.43 | 330,608.82 | 8.0964 | 202,419.35 | 7.8764 | 534,712.82 | 23.4400 | 95,728.02 | 12.8900 |
| Two Sigma Securities, LLC | 4.78 | 5.53 | 5.37 | 4.61 | 1.30 | 160,492.92 | 7.9646 | 53,152.05 | 7.5617 | 169,174.39 | 24.4041 | 12,773.43 | 10.8981 |
| Cboe EDGX Exchange, Inc. | 0.54 | 0.03 | 0.17 | 1.45 | 0.14 | -0.70 | -0.0087 | -4,068.88 | -21.7557 | 39,560.68 | 26.9871 | 0.00 | 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) |
|---------------------------------------|--------------------------------|-------------------------|-----------------------------------|-------------------------------------------|------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| Nasdaq Execution Services, LLC | 0.33 | 0.00 | 0.03 | 0.93 | 0.08 | 0.00 | 0.0000 | -118.67 | -28.7082 | 26,725.57 | 30.8119 | -322.26 | -13.9600 |

Citadel Execution Services:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Virtu Americas, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

G1 Execution Services, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

UBS Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Two Sigma Securities, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Cboe EDGX Exchange, Inc.:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Nasdaq Execution Services, LLC:

As detailed above, Schwab receives rebates from liquidity providers and certain exchanges based upon the order flow executed at each destination. Some orders require us to pay associated transaction costs, but most orders result in rebates. Rebate rates are substantially similar among the various securities exchanges and liquidity providers, although they vary based upon order characteristics (e.g. price of the security, marketability). Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

December 2020

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 | 17.37 | 6.93 | 48.50 | 27.20 |

| Venue - Non-directed Order Flow | Non- Mark Directed Orde Orders (%) (%) | | Non- Marketable Limit Orders (%) | Orders Paid/R (%) N | Received for Received Market Order | Yayment Paid/ Net Payment ved for Market Received ers(cents per Marketable dred shares) Orders(U | or Received for imit Marketable Limit | 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) |
|---------------------------------------|----------------------------------------------|--|-------------------------------------------|------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
|---------------------------------------|----------------------------------------------|--|-------------------------------------------|------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|

| 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 Execution Services | 34.56 | 33.14 | 33.47 | 33.16 | 38.25 | 1,266,694.60 | 35.3797 | 1,076,442.90 | 37.0739 | 1,190,027.20 | 38.8423 | 874,350.60 | 31.3632 |
| Global Execution Brokers LP | 30.25 | 29.99 | 29.70 | 29.49 | 31.94 | 1,618,516.27 | 38.1778 | 462,230.88 | 35.2019 | 1,322,597.48 | 40.4547 | 942,888.13 | 37.8935 |
| Wolverine Execution Services, LLC | 18.53 | 18.96 | 19.44 | 20.65 | 14.24 | 753,897.80 | 37.2724 | 569,277.90 | 39.9138 | 836,174.50 | 42.0317 | 500,368.80 | 37.3156 |
| Dash Financial Technologies, LLC | 8.70 | 12.34 | 11.05 | 9.53 | 4.30 | 517,726.80 | 33.5595 | 303,120.20 | 35.1062 | 383,624.60 | 35.6760 | 143,473.15 | 35.4826 |
| Morgan Stanley & Co., LLC | 7.95 | 5.57 | 6.34 | 7.17 | 11.28 | 220,686.90 | 37.8017 | 212,368.40 | 42.3993 | 249,441.10 | 40.4532 | 327,967.30 | 36.7152 |

Citadel Execution Services:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Global Execution Brokers LP:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Wolverine Execution Services, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.

Dash Financial Technologies, LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue. Dash has agreements with unaffiliated market makers, designed to facilitate liquidity provision and price improvement opportunities to Dash's retail equity option clients.

Morgan Stanley & Co., LLC:

As detailed above, Charles Schwab receives payment for routing listed option order flow to market makers. Any difference in average net per contract payments paid by market makers is due to the various type of orders and respective quantities they handle. Schwab will not bid out its order flow among venues nor negotiate over rates of payment as a condition for sending more order flow to a market venue.