

Spiderrock EXS, LLC - Held NMS Stocks and Options Order Routing Public Report

Generated on Wed Feb 08 2023 06:19:47 GMT-0600 (Central Standard Time)

4th Quarter, 2022

October 2022

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
6.34	0.01	76.29	23.71	0.00

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)
CBOE BATS OPTIONS EXCHANGE (BATS)	5.00	0.00	5.66	3.07	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ - ALL MARKETS (XNAS)	13.55	0.00	14.11	9.88	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	11.65	0.01	11.95	0.06	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE ARCA (ARCX)	29.99	0.01	28.72	40.18	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATY OPTIONS EXCHANGE (BATY)	0.93	0.01	1.19	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	2.73	0.01	3.47	0.03	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGX OPTIONS EXCHANGE (EDGX)	3.83	0.00	4.15	3.15	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
INVESTORS EXCHANGE (IEXG)	4.38	0.01	5.60	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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)
NYSE MKT LLC (XASE)	26.14	0.01	23.83	39.99	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.64	0.01	0.81	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

CBOE BATS OPTIONS EXCHANGE (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

NASDAQ - ALL MARKETS (XNAS):

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NEW YORK STOCK EXCHANGE, INC. (XNYS):

XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NYSE ARCA (ARCX):

ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf For options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

INVESTORS EXCHANGE (IEXG):

IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEX_Exchange_Fee_Schedule_Current.pdf

NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

MIAX EMERALD, LLC (EMLD):

EMLD has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_01012023_1.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

October 2022

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
5.36	0.11	76.29	23.71	0.00

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)
NYSE ARCA (ARCX)	28.27	0.01	31.84	40.67	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC (XASE)	20.37	0.01	20.58	40.04	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ - ALL MARKETS (XNAS)	17.58	0.01	14.27	10.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	13.83	0.01	9.38	0.25	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATS OPTIONS EXCHANGE (BATS)	5.66	0.01	7.39	3.26	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATY OPTIONS EXCHANGE (BATY)	1.12	0.03	1.55	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	2.95	0.20	3.88	0.18	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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)
CBOE EDGX OPTIONS EXCHANGE (EDGX)	4.13	0.01	5.21	3.27	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
INVESTORS EXCHANGE (IEXG)	3.38	0.01	4.77	0.11	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.55	0.01	0.77	0.03	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC. (XCIS)	0.02	0.02	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE MERCURY, LLC (MCRY)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

NYSE ARCA (ARCX):

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NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NASDAQ - ALL MARKETS (XNAS):

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NEW YORK STOCK EXCHANGE, INC. (XNYS):

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CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

INVESTORS EXCHANGE (IEXG):

IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEX_Exchange_Fee_Schedule_Current.pdf

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

NYSE NATIONAL, INC. (XCIS):

XCIS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://www.nyse.com/markets/nyse-national>

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

MIAX EMERALD, LLC (EMLD):

EMLD has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_01012023_1.pdf . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE GLOBAL MARKETS INC. (XCBO):

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CBOE EDGO OPTIONS EXCHANGE (EDGO):

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ISE MERCURY, LLC (MCRY):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OMX PHLX (XPHL):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

October 2022

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
88.30	0.77	76.29	23.71	0.00

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)
CBOE GLOBAL MARKETS INC. (XCBO)	9.49	0.01	4.47	5.27	0.00	82,969.36	48.1540	40,339.13	56.0266	39,388.86	60.8792	0.00	0.0000
NYSE ARCA OPTIONS (ARCO)	44.00	0.00	48.86	40.33	0.00	289.27	28.9270	82,269.32	26.7978	166,927.62	26.9195	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.46	0.00	0.53	0.35	0.00	0.00	0.0000	12,267.83	45.2687	10,022.51	54.1757	0.00	0.0000
NYSE AMEX OPTIONS (AMXO)	0.61	0.00	0.40	1.41	0.00	0.00	0.0000	6,346.35	39.9142	427.74	28.5160	0.00	0.0000
CBOE BATO OPTIONS EXCHANGE (BATO)	6.00	0.00	6.93	4.66	0.00	0.00	0.0000	111,202.57	53.3858	19,961.71	57.3612	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	9.14	0.00	9.39	10.74	0.00	0.00	0.0000	5,082.83	51.3417	4,416.07	36.4964	0.00	0.0000
ISE MERCURY, LLC (MCRY)	0.82	0.00	0.85	0.93	0.00	0.00	0.0000	1,250.40	15.2488	494.67	15.4584	0.00	0.0000
MIAX PEARL, LLC (MPRL)	3.18	0.00	3.47	3.11	0.00	0.00	0.0000	20,115.59	51.8443	3,290.84	41.6562	0.00	0.0000
ISE (XISE)	1.71	0.01	1.62	2.40	0.00	239.42	47.8840	17,974.32	30.3108	4,797.13	34.7618	0.00	0.0000
MIAX XMIO, LLC (XMIO)	0.55	0.01	0.68	0.29	0.00	0.65	0.0000	9,083.49	56.4192	10,605.90	62.7568	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.46	0.01	0.53	0.34	0.00	85.92	85.9200	13,079.04	43.8894	2,275.37	39.9188	0.00	0.0000
BOX OPTIONS EXCHANGE (XBOX)	0.08	0.00	0.08	0.09	0.00	0.00	0.0000	3,997.70	42.5287	2,816.62	65.5028	0.00	0.0000
ISE GMNI EXCHANGE (GMNI)	2.35	0.00	2.37	2.89	0.00	0.00	0.0000	4,786.70	54.3943	751.55	28.9058	0.00	0.0000
NASDAQ OMX BX OPTIONS (XBXO)	4.97	0.01	5.69	4.00	0.00	265.22	44.2033	62,115.22	49.0254	12,191.09	75.2536	0.00	0.0000
NASDAQ OPTIONS MARKET (XNDQ)	0.12	0.00	0.13	0.12	0.00	0.00	0.0000	10,608.70	51.0034	574.70	57.4700	0.00	0.0000

Material Aspects:

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

NYSE ARCA OPTIONS (ARCO):

NASDAQ OMX BX OPTIONS (XBBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OPTIONS MARKET (XNDQ):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

November 2022

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
3.39	0.01	70.85	29.15	0.00

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)
NASDAQ - ALL MARKETS (XNAS)	13.68	0.00	14.15	9.86	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	11.20	0.00	11.46	0.26	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE ARCA (ARCX)	30.61	0.00	29.56	40.95	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATS OPTIONS EXCHANGE (BATS)	4.86	0.00	5.32	3.25	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATY OPTIONS EXCHANGE (BATY)	0.80	0.00	0.97	0.04	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	2.55	0.03	3.07	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGX OPTIONS EXCHANGE (EDGX)	3.70	0.00	3.88	3.33	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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)
INVESTORS EXCHANGE (IEGX)	4.48	0.00	5.46	0.05	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC (XASE)	26.84	0.00	25.07	40.34	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.52	0.00	0.63	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

NASDAQ - ALL MARKETS (XNAS):

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NEW YORK STOCK EXCHANGE, INC. (XNYS):

XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NYSE ARCA (ARCX):

ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf For options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE BATS OPTIONS EXCHANGE (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

INVESTORS EXCHANGE (IEGX):

IEGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEGX_Exchange_Fee_Schedule_Current.pdf

NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

MIAX EMERALD, LLC (EMLD):

EMLD has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_01012023_1.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

November 2022

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
3.00	0.05	70.85	29.15	0.00

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)
NYSE ARCA (ARCX)	28.49	0.01	30.87	40.57	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATY OPTIONS EXCHANGE (BATY)	1.20	0.02	1.61	0.11	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	3.30	0.17	4.28	0.17	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
INVESTORS EXCHANGE (IEXG)	4.21	0.01	5.75	0.13	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC (XASE)	22.40	0.00	22.41	40.56	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC. (XCIS)	0.04	0.01	0.02	0.09	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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 - ALL MARKETS (XNAS)	16.54	0.00	13.85	9.42	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	12.40	0.01	8.92	0.21	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATS OPTIONS EXCHANGE (BATS)	5.13	0.01	6.40	3.22	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGX OPTIONS EXCHANGE (EDGX)	3.94	0.01	4.73	3.43	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.51	0.01	0.68	0.08	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE MERCURY, LLC (MCRY)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PSX (XPSX)	0.01	0.00	0.01	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

NYSE ARCA (ARCX):

ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf For options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

INVESTORS EXCHANGE (IEGX):

IEGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEX_Exchange_Fee_Schedule_Current.pdf

NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NYSE NATIONAL, INC. (XCIS):

XCIS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://www.nyse.com/markets/nyse-national>

NASDAQ - ALL MARKETS (XNAS):

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NEW YORK STOCK EXCHANGE, INC. (XNYS):

XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE BATS OPTIONS EXCHANGE (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

NASDAQ OMX PHLX (XPHL):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE EDGO OPTIONS EXCHANGE (EDGO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

MIAX EMERALD, LLC (EMLD):

EMLD has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_01012023_1.pdf . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

ISE MERCURY, LLC (MCRY):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OMX PSX (XPSX):

XPSX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx?id=PSX_Pricing

November 2022

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
93.61	0.37	70.85	29.15	0.00

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)
MIAX EMERALD, LLC (EMLD)	14.52	0.35	17.21	7.75	0.00	5,522.75	24.9898	8,085.35	34.5528	17,270.72	26.4888	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	3.17	0.01	2.21	2.02	0.00	36,195.79	47.0075	36,713.16	58.1825	40,544.57	61.8057	0.00	0.0000
ISE (XISE)	2.87	0.01	2.72	3.36	0.00	372.22	46.5275	17,370.70	31.0191	8,992.78	48.0897	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.27	0.01	0.24	0.34	0.00	89.76	89.7600	11,212.42	46.3323	1,636.14	37.1850	0.00	0.0000
NYSE ARCA OPTIONS (ARCO)	37.23	0.03	37.18	39.04	0.00	1,227.40	42.3241	126,195.62	36.4306	399,999.13	43.0755	0.00	0.0000
NYSE AMEX OPTIONS (AMXO)	0.20	0.00	0.14	0.36	0.00	0.00	0.0000	6,665.77	35.6458	486.69	22.1223	0.00	0.0000
CBOE BATO OPTIONS EXCHANGE (BATO)	10.53	0.00	10.69	10.68	0.00	0.00	0.0000	119,145.31	52.1880	24,703.20	53.7026	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.18	0.01	0.21	0.10	0.00	0.00	0.0000	11,579.62	44.1970	9,095.83	56.1471	0.00	0.0000
ISE GMNI EXCHANGE (GMNI)	4.14	0.00	4.04	4.58	0.00	0.00	0.0000	4,780.36	55.5856	999.24	27.7567	0.00	0.0000
ISE MERCURY, LLC (MCRY)	0.54	0.01	0.60	0.43	0.00	0.00	0.0000	1,151.75	16.2218	423.95	16.3058	0.00	0.0000
MIAX PEARL, LLC (MPRL)	6.30	0.00	6.22	6.80	0.00	0.00	0.0000	18,643.73	51.7881	3,959.33	41.6772	0.00	0.0000
BOX OPTIONS EXCHANGE (XBOX)	0.04	0.00	0.04	0.04	0.00	0.00	0.0000	4,510.26	45.1026	2,786.21	58.0460	0.00	0.0000
NASDAQ OMX BX OPTIONS (XBXO)	9.20	0.01	7.83	12.81	0.00	503.07	41.9225	41,856.90	48.4455	22,895.49	82.3579	0.00	0.0000
MIAX XMIO, LLC (XMIO)	0.16	0.00	0.20	0.08	0.00	0.00	0.0000	9,306.02	53.1773	9,821.53	62.1616	0.00	0.0000
NASDAQ OPTIONS MARKET (XNDQ)	4.99	0.00	4.88	5.47	0.00	0.00	0.0000	16,156.10	48.6630	1,733.27	39.3925	0.00	0.0000

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OMX BX OPTIONS (XBXO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

MIAX XMIO, LLC (XMIO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OPTIONS MARKET (XNDQ):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

December 2022

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
5.32	0.01	73.01	26.99	0.00

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)
CBOE BATS OPTIONS EXCHANGE (BATS)	5.39	0.00	6.08	2.91	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	2.81	0.01	3.46	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ - ALL MARKETS (XNAS)	13.54	0.00	14.28	7.02	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	7.07	0.00	5.05	0.02	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE ARCA (ARCX)	24.22	0.00	24.24	30.55	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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)
CBOE BATY OPTIONS EXCHANGE (BATY)	0.86	0.00	1.06	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGX OPTIONS EXCHANGE (EDGX)	3.85	0.00	4.21	2.97	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
INVESTORS EXCHANGE (IEXG)	3.97	0.01	4.90	0.02	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC (XASE)	18.00	0.00	16.67	29.93	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.44	0.00	0.54	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC. (XCIS)	0.04	0.00	0.05	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX XMIO, LLC (XMIO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PSX (XPSX)	0.01	0.00	0.02	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

CBOE BATS OPTIONS EXCHANGE (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

NASDAQ - ALL MARKETS (XNAS):

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NEW YORK STOCK EXCHANGE, INC. (XNYS):

XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NYSE ARCA (ARCX):

ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf For options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

INVESTORS EXCHANGE (IEXG):

IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEX_Exchange_Fee_Schedule_Current.pdf

NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE EDGO OPTIONS EXCHANGE (EDGO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NYSE NATIONAL, INC. (XCIS):

XCIS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://www.nyse.com/markets/nyse-national>

MIAX XMIO, LLC (XMIO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OMX PHLX (XPHL):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NASDAQ OMX PSX (XPSX):

XPSX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx?id=PSX_Pricing

December 2022

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
5.18	0.12	73.01	26.99	0.00

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)
NYSE ARCA (ARCX)	19.80	0.01	25.29	25.85	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATY OPTIONS EXCHANGE (BATY)	1.01	0.02	1.54	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA OPTIONS EXCHANGE (EDGA)	2.54	0.24	3.59	0.03	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
INVESTORS EXCHANGE (IEXG)	3.13	0.01	4.86	0.07	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC (XASE)	13.48	0.01	15.36	24.17	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ - ALL MARKETS (XNAS)	18.56	0.01	12.60	6.97	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC. (XNYS)	12.39	0.01	2.83	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BATS OPTIONS EXCHANGE (BATS)	4.59	0.01	6.71	2.20	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGX OPTIONS EXCHANGE (EDGX)	3.42	0.01	4.83	2.42	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX BX (XBOS)	0.35	0.01	0.54	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE NATIONAL, INC. (XCIS)	0.09	0.01	0.12	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
ISE (XISE)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	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 OMX PHLX (XPHL)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
MIA X XMIO, LLC (XMIO)	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NASDAQ OMX PSX (XPSX)	0.02	0.01	0.02	0.01	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

NYSE ARCA (ARCX):

ARCX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf For options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

CBOE BATY OPTIONS EXCHANGE (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

CBOE EDGA OPTIONS EXCHANGE (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

INVESTORS EXCHANGE (IEXG):

IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://storage.googleapis.com/assets-bucket/exchange/assets/IEX_Exchange_Fee_Schedule_Current.pdf

NYSE MKT LLC (XASE):

XASE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

NASDAQ - ALL MARKETS (XNAS):

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

NEW YORK STOCK EXCHANGE, INC. (XNYS):

XNYS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE BATS OPTIONS EXCHANGE (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

CBOE EDGX OPTIONS EXCHANGE (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

NASDAQ OMX BX (XBOS):

XBOS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <http://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

NYSE NATIONAL, INC. (XCIS):

XCIS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://www.nyse.com/markets/nyse-national>

ISE (XISE):

XISE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7> . For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

CBOE EDGO OPTIONS EXCHANGE (EDGO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

MIAX EMERALD, LLC (EMLD):

EMLD has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_01012023_1.pdf. For Options: The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

NASDAQ OMX PHLX (XPHL):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

MIAX XMIO, LLC (XMIO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

NASDAQ OMX PSX (XPSX):

XPSX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: http://www.nasdaqtrader.com/Trader.aspx?id=PSX_Pricing

December 2022

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
89.50	1.51	73.01	26.99	0.00

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)
NYSE ARCA OPTIONS (ARCO)	34.93	0.93	36.99	32.90	0.00	5,937.75	24.7406	53,606.17	24.7261	156,519.11	26.3989	0.00	0.0000
NASDAQ OMX BX OPTIONS (XBXO)	6.48	0.02	6.64	7.22	0.00	667.32	41.7075	41,556.82	49.6497	24,733.23	85.8793	0.00	0.0000
CBOE GLOBAL MARKETS INC. (XCBO)	8.96	0.01	5.66	6.03	0.00	43,209.50	47.0180	42,127.80	60.0967	44,353.04	61.6014	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)
ISE (XISE)	3.51	0.01	3.19	4.97	0.00	131.13	43.7100	14,107.64	35.7155	10,280.16	53.5425	0.00	0.0000
NASDAQ OMX PHLX (XPHL)	0.64	0.01	0.50	1.10	0.00	65.76	65.7600	8,156.82	42.0455	966.03	34.5011	0.00	0.0000
NYSE AMEX OPTIONS (AMXO)	0.25	0.00	0.23	0.33	0.00	0.00	0.0000	6,404.62	38.5820	211.06	14.0707	0.00	0.0000
CBOE BATO OPTIONS EXCHANGE (BATO)	5.90	0.01	5.85	7.16	0.00	0.00	0.0000	39,465.90	51.7246	8,365.05	35.1473	0.00	0.0000
CBOE EDGO OPTIONS EXCHANGE (EDGO)	0.41	0.00	0.53	0.20	0.00	0.00	0.0000	9,343.34	44.9199	9,022.50	56.0404	0.00	0.0000
MIAX EMERALD, LLC (EMLD)	10.34	0.00	10.06	13.01	0.00	0.00	0.0000	4,631.50	50.8956	6,010.57	36.4277	0.00	0.0000
ISE GMNI EXCHANGE (GMNI)	3.14	0.00	3.16	3.69	0.00	0.00	0.0000	3,613.59	53.1410	928.17	27.2991	0.00	0.0000
ISE MERCURY, LLC (MCRY)	0.40	0.00	0.40	0.46	0.00	0.00	0.0000	680.00	14.4681	198.20	15.2462	0.00	0.0000
MIAX PEARL, LLC (MPRL)	5.08	0.00	4.98	6.30	0.00	0.00	0.0000	70,009.79	49.9713	7,159.46	40.6788	0.00	0.0000
BOX OPTIONS EXCHANGE (XBOX)	0.10	0.00	0.08	0.16	0.00	0.00	0.0000	3,153.31	42.6123	2,032.30	58.0657	0.00	0.0000
MIAX XMIO, LLC (XMIO)	0.45	0.00	0.57	0.25	0.00	0.00	0.0000	8,040.70	52.5536	12,170.51	60.8526	0.00	0.0000
NASDAQ OPTIONS MARKET (XNDQ)	7.25	0.00	9.56	2.76	0.00	0.00	0.0000	60,743.18	42.3888	68,587.21	73.5914	0.00	0.0000

Material Aspects:

NYSE ARCA OPTIONS (ARCO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

NASDAQ OMX BX OPTIONS (XBXO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm has entered an agreement with Instinet, pursuant to which the Firm is provided access to its tiered pricing/payment schedule for client orders routed to Instinet for execution on the exchange. Information reflecting Instinet's tiered pricing schedule can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>. Pursuant to this agreement, the Firm also receives (i) 100% of any benefit tied to Instinet's tiered pricing/payment schedule for the tiers that the Firm reaches independent of Instinet's customer orders, and (ii) a split of any benefit between the tier reached by the Firm's customer orders and the tier reached by Instinet inclusive of the Firm's customer orders. Finally, this agreement allows the Firm to benefit from a portion of payments for order flow ("PFOF") that Instinet receives from the Firm's client orders that are routed to Instinet for execution on the exchange. Information on the Firm's PFOF payments for this quarter can be found at the following link: <https://spiderrockexs.com/supplemental-reports/>.

ISE (XISE):

