

Morgan Stanley

Morgan Stanley & Co. LLC
1585 Broadway
New York, NY 10036

SEC-Required Report on Routing of Customer Orders For Quarter Ending December 31, 2021

The Securities and Exchange Commission ("SEC" or "Commission") Rule 606, as amended (the "Rule") requires all brokerage firms to make publicly available quarterly reports that present a general overview of the Firm's routing of non-directed customer orders in covered equity and option securities. Non-directed orders are orders that customers have not specifically instructed to be routed to a specific destination. For these non-directed orders, Morgan Stanley & Co. LLC ("Morgan Stanley") has selected the execution venue on behalf of its customers. In addition, Morgan Stanley must identify the significant venues to which it routed customer orders for execution during the applicable quarter. To obtain information about the rule, you may access the following web site addresses: <http://www.sec.gov/rules/final/34-43590.htm> and <http://www.sec.gov/interps/legal/mrslb13a.htm> and <https://www.sec.gov/rules/final/2018/34-84528.pdf> and <https://www.sec.gov/tm/faq-rule-606-regulation-nms>.

The report is divided into three sections: one for stocks included in the S&P 500 index; one for stocks not included in the S&P 500 index; and one for exchange-listed options. For each section, this report identifies the venues most often selected by Morgan Stanley, sets forth the percentage of various types of orders routed to the venues and associated fees and rebates. In addition, at the end of the report, there is a discussion of the material aspects, if any, of Morgan Stanley's relationship with the venues and General Disclosure section that provides additional information relevant to Morgan Stanley's order routing and handling practices.

Morgan Stanley & Co. - Held NMS Stocks and Options Order Routing Public Report

Generated on Wed Jan 26 2022 12:17:18 GMT-0500 (Eastern Standard Time)

4th Quarter, 2021

October 2021

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)

October 2021

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)

October 2021

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
79.68	0.00	0.00	0.00	100.00

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)	40.38	0.00	0.00	0.00	40.38	0.00	0.0000	0.00	0.0000	0.00	0.0000	474,600.39	19.2456
CBOE GLOBAL MARKETS INC. (XCBO)	9.36	0.00	0.00	0.00	9.36	0.00	0.0000	0.00	0.0000	0.00	0.0000	140,520.67	7.0766
CBOE BZX OPTIONS EXCHANGE (BATO)	8.30	0.00	0.00	0.00	8.30	0.00	0.0000	0.00	0.0000	0.00	0.0000	-203,070.30	-10.7825
ISE GEMINI EXCHANGE (GMNI)	7.86	0.00	0.00	0.00	7.86	0.00	0.0000	0.00	0.0000	0.00	0.0000	1,241,361.72	48.9694
INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX)	6.00	0.00	0.00	0.00	6.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	188,713.23	22.0250
MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO)	5.44	0.00	0.00	0.00	5.44	0.00	0.0000	0.00	0.0000	0.00	0.0000	182,108.39	29.2668
PHILADELPHIA OPTIONS EXCHANGE (XPHO)	5.42	0.00	0.00	0.00	5.42	0.00	0.0000	0.00	0.0000	0.00	0.0000	144,530.23	21.9639
CBOE EDGX OPTIONS EXCHANGE (EDGO)	5.35	0.00	0.00	0.00	5.35	0.00	0.0000	0.00	0.0000	0.00	0.0000	198,673.94	37.4433
MIAX EMERALD, LLC (EMLD)	4.70	0.00	0.00	0.00	4.70	0.00	0.0000	0.00	0.0000	0.00	0.0000	-40,165.03	-11.1335
NYSE AMEX OPTIONS (AMXO)	4.21	0.00	0.00	0.00	4.21	0.00	0.0000	0.00	0.0000	0.00	0.0000	111,425.18	29.6963

Material Aspects:

NYSE ARCA OPTIONS (ARCO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to ARCO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XCBO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

CBOE BZX OPTIONS EXCHANGE (BATO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to BATO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

ISE GEMINI EXCHANGE (GMNI):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to GMNI in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/gemx/rules/GEMX%20Options%207>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XISX in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XMIO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_10142021.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

PHILADELPHIA OPTIONS EXCHANGE (XPHO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XPHO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

CBOE EDGX OPTIONS EXCHANGE (EDGO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EDGO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

MIAX EMERALD, LLC (EMLD):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EMLD in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_10142021.pdf

NYSE AMEX OPTIONS (AMXO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to AMXO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

November 2021

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)

November 2021

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
---------------------------------	-------------------------	-------------------	-----------------------------	---------------------------------	------------------	--	---	--	---	--	---	---	--

November 2021

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
69.96	0.00	0.00	0.00	100.00

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)	42.12	0.00	0.00	0.00	42.12	0.00	0.0000	0.00	0.0000	0.00	0.0000	863,733.95	30.5020
ISE GEMINI EXCHANGE (GMNI)	9.49	0.00	0.00	0.00	9.49	0.00	0.0000	0.00	0.0000	0.00	0.0000	1,330,993.20	52.8440
CBOE BZX OPTIONS EXCHANGE (BATO)	8.79	0.00	0.00	0.00	8.79	0.00	0.0000	0.00	0.0000	0.00	0.0000	-156,978.00	-7.0972
CBOE GLOBAL MARKETS INC. (XCBO)	7.24	0.00	0.00	0.00	7.24	0.00	0.0000	0.00	0.0000	0.00	0.0000	176,061.41	8.6002
INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX)	5.49	0.00	0.00	0.00	5.49	0.00	0.0000	0.00	0.0000	0.00	0.0000	199,210.17	22.7586
MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO)	5.19	0.00	0.00	0.00	5.19	0.00	0.0000	0.00	0.0000	0.00	0.0000	211,945.50	32.3908
PHILADELPHIA OPTIONS EXCHANGE (XPHO)	5.05	0.00	0.00	0.00	5.05	0.00	0.0000	0.00	0.0000	0.00	0.0000	137,572.20	21.7285
CBOE EDGX OPTIONS EXCHANGE (EDGO)	4.74	0.00	0.00	0.00	4.74	0.00	0.0000	0.00	0.0000	0.00	0.0000	203,836.54	38.8732
MIAX EMERALD, LLC (EMLD)	4.31	0.00	0.00	0.00	4.31	0.00	0.0000	0.00	0.0000	0.00	0.0000	-28,733.82	-8.4763
NYSE AMEX OPTIONS (AMXO)	4.06	0.00	0.00	0.00	4.06	0.00	0.0000	0.00	0.0000	0.00	0.0000	121,170.13	29.7853

Material Aspects:

NYSE ARCA OPTIONS (ARCO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to ARCO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

ISE GEMINI EXCHANGE (GMNI):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to GMNI in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/gemx/rules/GEMX%20Options%207>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

CBOE BZX OPTIONS EXCHANGE (BATO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to BATO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XCBO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XISX in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XMIO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_10142021.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

PHILADELPHIA OPTIONS EXCHANGE (XPHO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XPHO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

CBOE EDGX OPTIONS EXCHANGE (EDGO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EDGO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

MIAX EMERALD, LLC (EMLD):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EMLD in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_10142021.pdf

NYSE AMEX OPTIONS (AMXO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to AMXO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

December 2021

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)

December 2021

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
-	-	-	-	-

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
---------------------------------	-------------------------	-------------------	-----------------------------	---------------------------------	------------------	--	---	--	---	--	---	---	--

December 2021

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
70.95	0.00	0.00	0.00	100.00

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)	40.21	0.00	0.00	0.00	40.21	0.00	0.0000	0.00	0.0000	0.00	0.0000	523,644.14	25.4628
ISE GEMINI EXCHANGE (GMNI)	10.30	0.00	0.00	0.00	10.30	0.00	0.0000	0.00	0.0000	0.00	0.0000	1,226,096.95	51.7765
CBOE GLOBAL MARKETS INC. (XCBO)	8.17	0.00	0.00	0.00	8.17	0.00	0.0000	0.00	0.0000	0.00	0.0000	-310.21	-0.0140
CBOE BZX OPTIONS EXCHANGE (BATO)	7.08	0.00	0.00	0.00	7.08	0.00	0.0000	0.00	0.0000	0.00	0.0000	-28,759.83	-1.4618
INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX)	5.70	0.00	0.00	0.00	5.70	0.00	0.0000	0.00	0.0000	0.00	0.0000	147,458.16	16.2319
MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO)	5.53	0.00	0.00	0.00	5.53	0.00	0.0000	0.00	0.0000	0.00	0.0000	229,027.44	32.8392
PHILADELPHIA OPTIONS EXCHANGE (XPHO)	5.35	0.00	0.00	0.00	5.35	0.00	0.0000	0.00	0.0000	0.00	0.0000	133,487.74	21.8599
CBOE EDGX OPTIONS EXCHANGE (EDGO)	5.23	0.00	0.00	0.00	5.23	0.00	0.0000	0.00	0.0000	0.00	0.0000	205,761.29	38.3824

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 AMEX OPTIONS (AMXO)	4.91	0.00	0.00	0.00	4.91	0.00	0.0000	0.00	0.0000	0.00	0.0000	131,264.87	30.4533
MIAX EMERALD, LLC (EMLD)	4.91	0.00	0.00	0.00	4.91	0.00	0.0000	0.00	0.0000	0.00	0.0000	-15,907.54	-5.4595

Material Aspects:

NYSE ARCA OPTIONS (ARCO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to ARCO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

ISE GEMINI EXCHANGE (GMNI):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to GMNI in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/gemx/rules/GEMX%20Options%207>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

CBOE GLOBAL MARKETS INC. (XCBO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XCBO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

CBOE BZX OPTIONS EXCHANGE (BATO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to BATO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

INTERNATIONAL SECURITIES EXCHANGE, LLC (XISX):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XISX in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

MIAMI INTERNATIONAL SECURITIES EXCHANGE (XMIO):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XMIO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_10142021.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

PHILADELPHIA OPTIONS EXCHANGE (XPHO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to XPHO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

CBOE EDGX OPTIONS EXCHANGE (EDGO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EDGO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

NYSE AMEX OPTIONS (AMXO):

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to AMXO in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Additionally, pursuant to an exchange-sponsored marketing fee program, the Firm may receive payments from the exchange as a result of its designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

MIAX EMERALD, LLC (EMLD):

An affiliate of Morgan Stanley holds a minority ownership stake in Miami International Holdings, Inc. (who is the parent company of MIAX, MIAX PEARL, MIAX PEARL Equities, and MIAX EMERALD). An affiliate of Morgan Stanley also holds an indirect ownership stake in Miami International Holdings, Inc., which become exercisable in the event that Morgan Stanley meets certain order execution thresholds on MIAX PEARL Equities.

The Firm is a Market Maker on this exchange and may realize profits from such activity.

Morgan Stanley receives rebates and pays fees for the routing of customer orders in exchange listed options to EMLD in accordance with the volume-based tiered schedule published by the exchange, and such rebates may exceed the fees paid to such venue.

For additional information regarding the pricing tiers offered by this market center, please refer the current fee schedule at: https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Emerald_Fee_Schedule_10142021.pdf

General Disclosures

Equities

Morgan Stanley routes customer equity orders to national securities exchanges, alternative trading systems (ATSS), including electronic communications networks (ECNs), and other venues. Certain venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books (and certain venues invert this practice). The amount of credits that Morgan Stanley receives from one or more venues may exceed the amount that Morgan Stanley is charged. Morgan Stanley may also receive incremental pricing benefits from certain venues if certain volume thresholds are met. Such payments constitute payment for order flow.

For other disclosures regarding equity order practices please refer to the following link: [U.S. Cash Equity Order Handling and Routing FAQs](#)

Options

Morgan Stanley routes customer options orders to national securities exchanges. Certain venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books (and certain venues invert this practice). The amount of credits that Morgan Stanley receives from one or more venues may exceed the amount that Morgan Stanley is charged. Morgan Stanley may also receive incremental pricing benefits from certain venues if certain volume thresholds are met. Such payments constitute payment for order flow.

Morgan Stanley participates in Exchange-sponsored listed options payment for order flow programs and accepts payment for order flow for certain listed options orders. In the course of providing liquidity, Morgan Stanley may preference certain options orders to the Firm's options market maker, or third party market makers for execution.

Based on client configurations and/or instructions for non-marketable option orders, Morgan Stanley may send orders to one or multiple exchanges and may consider availability of its registered options market-maker to provide price-improvement and/or enhanced liquidity in an automated and anonymous manner via an exchange-sponsored price improvement offering. Subject to the above, Morgan Stanley considers opportunities for price-improvement, fill-rates, type of venue, exchange fees, rebates, and/or tiers when deciding where to route orders.

For other disclosures regarding options order practices please refer to the following link: [U.S. IED Listed Options Order Handling and Routing Letter](#)

Ownership Interests

In addition to the ownership interests disclosed in the prior sections, Morgan Stanley or certain affiliates also hold minority stakes in other venues which stand to appreciate as a result of any profits generated from the execution of customer orders.

Customer Requests for Information

In accordance with SEC Rule 606, upon written request, Morgan Stanley & Co. LLC will disclose to clients the identity of the venue to which client's orders were routed for execution, whether the orders were directed or non-directed, and the time of the executions, if any, that resulted from such orders.

Disclaimer

The information and data provided herein (the "Reports") are the property of Morgan Stanley & Co. LLC ("Morgan Stanley") and cannot be redistributed in any form or manner without the prior written consent of Morgan Stanley & Co. LLC.

Morgan Stanley has prepared the Reports solely for informational purposes and consistent with Rules 605 and 606 (formerly Rules 11Ac1-5 and 11Ac1-6), as amended, under Regulation NMS (the "Disclosure Rules"). The information provided in the Reports is not intended to, and does not, encompass all the factors to be considered in a best execution analysis and related order routing determinations.

The disclosures required by Rule 605 do not encompass all of the factors that may be important to investors in evaluating the order routing services of a broker-dealer. In addition, any particular market center's statistics will encompass varying types of orders routed by different broker-dealers on behalf of customers with a wide range of objectives. Accordingly, the statistical information required by Rule 605 alone does not create a reliable basis to address whether any particular broker-dealer obtained the most favorable terms reasonably available under the circumstances for customer orders.

Morgan Stanley does not represent, warrant, or guarantee that the Reports are accurate. Morgan Stanley disclaims liability for any direct, indirect, punitive, special, consequential, or incidental damages related to the Reports or the use of the Reports. The information provided in the Reports may be impacted by market data system outages or errors, both internal and external, and it is dependent upon the integrity and accuracy of data provided by outside sources. Certain assumptions have been made in preparing the Reports, and changes to the assumptions may have a material impact on results. The Reports do not endorse or recommend any particular security or market participant.

This disclaimer applies to the Reports in their entirety, irrespective of whether the Reports are used or viewed in whole or in part, and may be reviewed at any time by accessing the "Disclaimer" posted on the web page where the Reports are made available.