# Alpaca Securities LLC - Held NMS Stocks and Options Order Routing Public Report

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1st Quarter, 2023

# January 2023

### 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
1	100.00	54.82	25.21	12.77	7.20

#### 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)
Virtu Americas, LLC (NITE)	15.69	13.29	16.08	20.46	24.07	2,378.46	333.3434	1,066.36	26.8574	501.10	19.5946	490.39	28.9089
Citadel Securities LLC (CDRG)	38.10	42.69	33.03	47.31	4.49	5,666.03	24.7255	1,852.03	22.7147	1,133.10	19.1616	-14.67	-4.6336
Jane Street Capital, LLC (JNST)	46.22	44.02	50.89	32.23	71.44	6,249.11	26.4492	2,241.54	17.8427	805.63	20.0000	1,717.86	34.1142

## Material Aspects:

### Virtu Americas, LLC (NITE):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Extended hours orders routed to Virtu and filled outside the core session will not receive a payment. However, orders marketed as extended hours eligible filled in the core session will receive a payment. There is a payment. There is a potential conflict inherent to a market maker such as Virtu both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) payment for order flow. A market maker's (such as Virtu's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one subcategory will result in a decreased allocation to one or more of the other categories.

#### Citadel Securities LLC (CDRG):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Extended hours orders routed to Citadel and filled outside the core session will not receive payment. However, orders marked as extended hours eligible filled in the core session will receive a payment. However, orders marked as extended hours eligible filled in the core session will receive a payment. However, orders marked as extended hours eligible filled in the core session will receive a rebate of 20 mils per share. Non-marketable orders that are filled at a price of less than \$1 and filled during the core session, Alpaca Securities LLC will receive a rebate of 1.3 mils per share. There is a potential conflict inherent to a market maker such as Citadel both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit, a market maker such as Citadel control of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to provide price improvement or not provide price improvement or not provide (or provide (ses) payment for order flow. A market maker's (such as Citadel's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one subcategory will result in a decreased allocation to one or more of the other categories.

Jane Street Capital, LLC (JNST):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Orders filled on the primary market opening and closing auctions/crosses will not receive a rebate or incur a charge. Marketable orders filled during the core session will receive a rebate of 20 mils per share. Non-marketable orders that are filled at a price of less than \$1 and filled during the core session, Alpaca Securities LLC will receive a rebate of 1.3 mils per share. There is a potential conflict inherent to a market maker such as Jane Street both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street can (i) forgo a portion of such anticipated profit to provide price improvement; (ii) forgo a portion of such anticipated profit to pay for order flow, or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Jane Street's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to one or more of the other categories. Alpaca does not currently route Jane Street extended hours eligible orders.

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# January 2023

# 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
I	100.00	70.43	8.96	17.53	3.09

#### 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)
Virtu Americas, LLC (NITE)	16.07	15.50	14.61	16.81	29.26	21,533.17	8.0391	6,444.17	20.0727	4,447.70	6.1503	1,661.71	7.4942
Citadel Securities LLC (CDRG)	32.62	32.36	35.58	34.23	20.85	55,323.51	9.8907	17,919.56	22.9128	10,548.92	7.1631	-214.48	-1.3577
Jane Street Capital, LLC (JNST)	51.30	52.14	49.81	48.95	49.89	85,679.20	9.5083	22,974.15	20.9815	13,639.87	6.4772	4,503.94	11.9153

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# January 2023

# 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
0.00	0.00	0.00	0.00	0.00

### Venues

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

Material Aspects:

# February 2023

# 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
100.00	50.07	30.15	14.08	5.70

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)
Virtu Americas, LLC (NITE)	24.83	22.10	26.94	26.79	32.84	4,258.34	37.8010	1,927.03	23.3106	758.02	19.7407	586.21	30.7836
Citadel Securities LLC (CDRG)	29.84	34.73	23.72	36.16	3.72	7,061.81	39.8940	1,900.73	26.1112	984.46	18.9952	-3.36	-1.5587
Jane Street Capital, LLC (JNST)	45.32	43.17	49.34	37.05	63.45	7,471.94	33.9590	2,913.22	19.2373	1,062.00	20.0000	1,340.89	36.4398

Virtu Americas, LLC (NITE):

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# February 2023

# 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
ĺ	100.00	69.71	10.28	17.06	2.95

#### 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)
Virtu Americas, LLC (NITE)	27.79	27.05	32.27	26.84	35.33	40,937.71	9.5575	8,362.16	11.0939	6,843.00	6.5782	1,866.93	7.8763
Citadel Securities LLC (CDRG)	20.72	19.64	22.67	24.98	14.69	40,856.17	13.1360	10,245.39	19.3530	8,020.45	8.2846	-319.17	-3.2380
Jane Street Capital, LLC (JNST)	51.49	53.32	45.06	48.18	49.98	81,004.37	9.5935	16,144.31	15.3380	13,277.88	7.1120	3,494.14	10.4190

## **Material Aspects:**

Virtu Americas, LLC (NITE):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Extended hours orders for orders filled outside the core session will not receive a payment. However, orders market as extended hours eligible filled in the core session will receive a payment. Orders filled above \$1 filled during the core session will receive a fare to price orders filled above \$1 filled during the core session will receive as rebate or incur a charge. Marketable orders filled above \$1 filled during the core session will receive a rebate of 20 mils per share. Non-marketable orders filled above \$1 filled during the core session will receive a rebate of 20 mils per share. There is a potential conflict inherent to a market maker such as Virtu both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit to provide provide provide provide provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Virtu's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one subcategory will result in a decreased allocation to one or more of the other categories.

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# February 2023

# **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
0.00	0.00	0.00	0.00	0.00

#### Venues

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

# March 2023

## 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
100.00	50.34	31.88	11.39	6.39

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)
Virtu Americas, LLC (NITE)	27.91	25.60	29.82	28.40	35.69	6,415.62	33.3655	3,115.40	21.9684	960.25	19.8922	948.51	27.8719
Citadel Securities LLC (CDRG)	24.70	28.89	18.11	36.12	4.16	8,035.57	37.0355	226.50	25.8550	1,149.91	187,268	108.04	27.2682
Jane Street Capital, LLC (JNST)	47.39	45.50	52.07	35.48	60.15	10,977.18	32.1240	4,890.92	19.7536	1,206.20	20.0000	1,846.93	32.2051

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# March 2023

# 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
100.00	58.32	22.75	13.43	5.50

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
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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)
Virtu Americas, LLC (NITE)	30.34	29.97	30.31	29.28	37.05	47,796.54	7.5173	26,305.57	10.4867	239,081.19	6.3486	6,800.01	9.1698
Citadel Securities LLC (CDRG)	18.04	18.12	19.61	21.08	3.22	38,393.03	9.9849	19,544.25	12.0404	8,184.96	7.9483	452.80	7.0291
Jane Street Capital, LLC (JNST)	51.62	51.91	50.07	49.64	59.73	94,037.99	8.5373	49,572.74	11.9631	17,112.76	7.0554	13,931.57	11.6524

Virtu Americas, LLC (NITE):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Extended hours orders routed to Virtu and filled outside the core session will not receive a extended hours eligible filled in the core session will receive a payment. However, orders market as extended hours eligible filled in the core session will receive a payment. Drivers filled above \$1 filled during the core session will receive 12% of the spread per share. Non-marketable orders filled above \$1 filled above \$1 filled above \$1 filled during the core session will receive a rebate of 20 mils per share. Non-marketable orders filled above \$1 filled during the core session will receive a rebate of 20 mils per share. There is a potential conflict inherent to a market maker such as Virtu both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit to provide profit to provide provide provide provide provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Virtu's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to any one subcategory will result in a decreased allocation to one or more of the other categories.

#### Citadel Securities LLC (CDRG)

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Extended hours orders routed to Citadel and filled outside the core session will not receive payment. However, orders marked as extended hours eligible filled in the core session will receive a payment. However, orders marked as extended hours eligible filled in the core session will receive a payment. However, orders marked as extended hours eligible filled in the core session will receive a rebate of 20 mils per share. Non-marketable orders that are filled at a price of less than \$1 and filled during the core session, Alpaca Securities LLC will receive a rebate of 1.3 mils per share. There is a potential conflict inherent to a market maker such as Citadel both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit, a market maker such as Citadel control of provide profit or provide profit to pay for order flow, or (iii) retain a larger portion of such anticipated profit and provide profit must be allocated among these three sub-categoryes, such that an increased allocation to any one subcategory will result in a decreased allocation to one or more of the other categories, such that an increased allocation to one or more of the other categories.

#### Jane Street Capital, LLC (JNST):

Alpaca Securities receives revenue from third-party liquidity providers based on the order flow execution received at each destination. While rebate rates are substantially similar amongst the liquidity providers they may vary based on order characteristics (such as price of execution, marketability, and other characteristics). Orders filled on the primary market opening and closing auctions/crosses will not receive a rebate nor incur a charge. Marketable orders filled during the core session will receive a rebate of 20 mils per share. Non-marketable orders filled at a price of less than \$1 and filled during the core session, Alpaca Securities LLC will receive a rebate of 120 mils per share. There is a potential conflict inherent to a market maker such as Jane Street both paying for order flow and providing price improvement, as the potential source of funds for each is the same, namely the anticipated profit the market maker seeks to earn from executing or facilitating the execution of Alpaca Securities LLC customer orders. Accordingly, from such anticipated profit, a market maker such as Jane Street can (i) forgo a portion of such anticipated profit to pay for order flow; or (iii) retain a larger portion of anticipated profit and not provide (or provide less) price improvement or not provide (or provide less) payment for order flow. A market maker's (such as Jane Street's) anticipated profit must be allocated among these three sub-categories, such that an increased allocation to one or more of the other categories. Alpaca does not currently route Jane Street extended hours eliqible orders.

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# March 2023

## **Options** Summary

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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	
0.00	0.00	0.00	0.00	0.00	

N dire Or	enue - Non- rected Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(USD)	Net Payment Paid/ Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/ Received for Non- Marketable Limit Orders(USD)	Net Payment Paid/ Received for Non- Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cents per hundred shares)
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