### SVB INVESTMENT SERVICES INC. Held NMS Stocks and Options Order Routing Public Report Generated on Mon Jan 09 2023 06:43:50 GMT-5 EST 4th Quarter, 2022

#### October 2022

	&P 500 Stoc	ks
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Summary									
							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	Directed Orders	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
32	100.00	31	96.88	1	3.13	0	0.00	0	0.00

Venues Marketable Limit Orders(%) Limit Orders Non-Marketable Limit Orders(%) Other Orders Non-Directed Orders(%) Other Orders(%) Non-Directed Market Market Orders Orders(%) Marketable Venue - Non-directed Order Flow Citadel Securities LLC(CDRG) G1 Execution Services, LLC(ETMM) VIRTU Americas, LLC(NTE) Jane Street Capital, LLC(INST) Two Sigma Securities, LLC(SOHO) Orders Limit Orders 43.75 0.00 45.16 0.00 14 19.35 22.58 0.00 21.88 21.88 100.00 0.00 6 0.00 0.00 0.00 6.25 6.25 6.45 6.45 0.00 0

## October 2022 Non-S&P 500 Stocks Summary

	1								
	1						Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders		Limit Orders as		Limit Orders as		Other Orders as
	Orders as % of								% of Non-
Total Non-Directed Orders	All Orders	Orders	Directed Orders	Limit Orders	Directed Orders	Limit Orders	Directed Orders	Orders	Directed Orders
146	100.00	144	98.63	2	1.37	0	0.00	0	0.00

Venues

							Non-	Non-		
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
Citadel Securities LLC(CDRG)	48	32.65	47	32.64	1	50.00	0	0.00	0	0.00
G1 Execution Services, LLC(ETMM)	43	29.25	42	29.17	1	50.00	0	0.00	0	0.00
VIRTU Americas, LLC(NITE)	36	24.49	36	25.00	0	0.00	0	0.00	0	0.00
Jane Street Capital, LLC(JNST)	11	7.48	11	7.64	0	0.00	0	0.00	0	0.00
Two Sigma Securities, LLC(SOHO)	8	5.44	8	5.56	0	0.00	0	0.00	0	0.00
Instinet BlockCross(BLKX)	1	0.68	0	0.00	0	0.00	0	0.00	1	100.00

## October 2022 Option Contracts Summary

							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	Directed Orders	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
2	100.00	0	0.00	1	50.00	1	50.00	0	0.00

Venues

							-	Non-		
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
Citadel Securities LLC(CDRG)	1	50.00	0	0.00	0	0.00	1	50.00	0	0.00
Wolverine Execution Services LLC(WEXX)	1	50.00	0	0.00	0	0.00	1	50.00	0	0.00

## November 2022 S&P 500 Stocks

Summary

							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
3	100.00	3	100.00	0	0.00	0	0.00	0	0.00

Venues

							Non-	Non-		
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
VIRTU Americas, LLC(NITE)	2	66.67	2	66.67	0	0.00	0	0.00	0	0.00
G1 Execution Services, LLC(ETMM)	1	33.33	1	33.33	0	0.00	0	0.00	0	0.00

## November 2022 Non-S&P 500 Stocks Summary

							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	Directed Orders	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
19	100.00	17	89.47	1	5.26	1	5.26	0	0.00

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Venues										
	Non-Directed	Non-Directed		Market	Marketable			Non- Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
VIRTU Americas, LLC(NITE)	8	38.10	8	47.06	0	0.00	0	0.00	0	0.00
Citadel Securities LLC(CDRG)	5	23.81	4	23.53	1	100.00	0	0.00	0	0.00
G1 Execution Services, LLC(ETMM)	4	19.05	4	23.53	0	0.00	0	0.00	0	0.00
Instinet BlockCross(BLKX)	2	9.52	0	0.00	0	0.00	0	0.00	2	100.00
Cboe EDGX US Equities Exchange(EDGX)	1	4.76	0	0.00	0	0.00	1	100.00	0	0.00
Jane Street Capital, LLC(JNST)	1	4.76	1	5.88	0	0.00	0	0.00	0	0.00

November 2022 Option Contracts Summary

							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Orders	Directed Orders
2	100.00	0	0.00	1	50.00	1	50.00	0	0.00

Venues										
							Non-	Non-		
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
Citadel Securities LLC(CDRG)	1	50.00	0	0.00	0	0.00	1	50.00	0	0.00
Wolverine Execution Services LLC(WEXX)	1	50.00	0	0.00	0	0.00	1	50.00	0	0.00

December 2022 S&P 500 Stocks Summary

							Non-		
					Marketable		Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	Directed Orders	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
0	0.00	0	0.00	0	0.00	0	0.00	0	0.00

Venues	

venues											
							-	Non-			
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other	
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)	
0											

December 2022 Non-S&P 500 Stocks Summary

							Nez		
					Marketable		Non- Marketable		
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>
103	100.00	103	100.00	0	0.00	0	0.00	0	0.00

Venues

							Non-	Non-		
	Non-Directed	Non-Directed		Market	Marketable	Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
Citadel Securities LLC(CDRG)	43	40.19	43	41.75	0	0.00	0	0.00	0	0.00
G1 Execution Services, LLC(ETMM)	26	24.30	26	25.24	0	0.00	0	0.00	0	0.00
VIRTU Americas, LLC(NITE)	25	23.36	25	24.27	0	0.00	0	0.00	0	0.00
Jane Street Capital, LLC(JNST)	9	8.41	9	8.74	0	0.00	0	0.00	0	0.00
Instinet BlockCross(BLKX)	4	3.74	0	0.00	0	0.00	0	0.00	4	100.00

# December 2022 Option Contracts Summary

										1
							Non-			
					Marketable		Marketable			1
	Non-Directed		Market Orders	Total	Limit Orders as	Total Non-	Limit Orders as		Other Orders as	1
	Orders as % of	Total Market	as % of Non-	Marketable	% of Non-	Marketable	% of Non-	Total Other	% of Non-	1
Total Non-Directed Orders	All Orders	Orders	<b>Directed Orders</b>	Limit Orders	Directed Orders	Limit Orders	<b>Directed Orders</b>	Orders	<b>Directed Orders</b>	1
0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1

Venues

							Non-	Non-		
		Non-Directed				Marketable	Marketable	Marketable		Other
Venue - Non-directed Order Flow	Orders	Orders(%)	Market Orders	Orders(%)	Limit Orders	Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Orders(%)
0										