PURSHE KAPLAN STERLING - Held NMS Stocks and Options Order Routing Public Report Generated on Thu Jan 11 2024 04:59:20 GMT-5 EST

4th Quarter, 2023

October 2023

S&P 500 Stocks

Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
323	100.00	298	92.26	7	2.17	18	5.57	0	0.00

Venues

Services, LLC(FMM) 48 12,9 47 15.8 1 14.2 9 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	venues																		
Claded Securities 1				Market Orders	Market Orders(9		Marketable Limit Orders(%)			Other Orders	Other Orders(%)	Paid/Received for	Paid/Received for Market Orders(cents per	Paid/Received for Marketable Limit	Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Paid/Received for	Paid/Received for Other Orders(cents
LICCORGO 114 30.5 10 38.7 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			Orders(70)	Warket Orders	Warket Orders()	oj Orders	Walketable Lillit Orders(70)	Limit Orders	Limit Orders(70)	Other Orders	Other Orders(70)	Iviai ket Orders(OSD	indired shares	Orders(03D)	indired sharesj	Limit Orders(O3D)	per nunureu snares,	Other Orders(OSD)	per nunureu snaresj
Marticaphe Mar		11/	30.65	1	100	6.70	57.		1 1 1	a	0.0	0	n	0	0	0		,	
LICINITY S		114	30.03	-	100	0.70	57	14	1.4	9	0.0								, 0
Jame Street Capital (1975) 1838		95	25.54		90 3	0.30	28.1	57	3	Ω	0.0	0			0	0			
LICLING 52 13.08 50 16.84 0 0.00 0 0 0 0 0 0 0		93	25.54		30	0.50	20.0		4.4		0.0								, 0
GF Execution Services, LLC(ETMM)		52	13 00		50 1	6.84	0.0	10	2 20	۵	0.0	0			0	0			
Services, LLC(FMM) 48 12,9 47 15,8 1 14,2 9 0 0,0 0 0,0 0 0 0 0 0 0 0 0 0 0 0 0 0	LLC(JNS1)	52	13.90		30 1	0.04	0.0		2.5	3	0.0								, 0
New York Stock Exchange(NYSE) 37 9.95 0 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0	G1 Execution																		
Exchange (NYSE) 3 9.95 0 0.00 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0		48	12.90		47 1	5.82	14.2	29	0.0	0	0.0	0	0	0	0	0	0 ()	0
NASDAQ Execution Services, LLC(NSDQ) 14 3.76 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																			
Services, LLC(NSDQ) 14 3.76 0 0 0 0 0 0 0 0 0	Exchange(NYSE)	37	9.95		0	0.00	0.0	00 3	7 55.2	2	0.0	0	0	0	0	0	0 ()	0
Close EDGX US Equities	NASDAQ Execution Services, LLC(NSDO)	14	3.76		0	0.00	0.0	00 1.	4 20.9	0	0.00	0	0	0	0	0	0		
Equities Sample S			0.70					-			0.0								
Exchange(EDGX) 8 2.15 0 0.00 0 0.00 0 0.00 8 11.94 0 0.00 0 0 0 0 0 0 0																			
Members Exchange(MEMX) 2 0.54 0 0.00 0	· ·	8	2.15		0	0.00	0.0	00	8 11.9	4	0.0	0	0	0	0	0	0		0
Exchange(MEMX) 2 0.54 0 0.00 0 0.00 0											1								
Instinet		2	0.54		0	0.00	0.0	00	2.9	9	0.0	0	0	0	0	0	0		0
BlockCross(BLKX) 1 0.27 0 0.00 0 0.00 0 0.00 0 0 0.00 0 0 0 0																			
Two Sigma Securities,		1	0.27		0	0.00	0.0	00	0.0	0	1 100.0	0	0	0	0	0	0		0
Securities,																			
	LLC(SOHO)	1	0.27		1	0.34	0.0	00	0.0	0	0.0	0	0	0	0	0	0		0

October 2023

Non-S&P 500 Stocks

Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
469	100.00	405	86.35	13	2.77	50	10.66	1	0.21

Venues

												Net Payment		Net Payment		Net Payment		
												Paid/Received for	Net Payment	Paid/Received for	Net Payment	Paid/Received for		Net Payment
											Net Payment	Market	Paid/Received for	Marketable Limit	Paid/Received for	Non-Marketable	Net Payment	Paid/Received for
Venue - Non- Non-Dire	ected	Non-Directed			Marketable Limit		Non-Marketable	Non-Marketable			Paid/Received for	Orders(cents per	Marketable Limit	Orders(cents per	Non-Marketable	Limit Orders(cents	Paid/Received for	Other Orders(cents
directed Order Flow Orders	(Orders(%)	Market Orders	Market Orders(%	Orders	Marketable Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD)	hundred shares)	Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)	per hundred shares)
Citadel Securities																		
LLC(CDRG)	184	;	30.51 1	62 40	.10	7	53.85	14 8.2	28	1 5.88	3)	ס	0	0	0	C	0
VIRTU Americas,																		
LLC(NITE)	103	!	17.08	98 24	.26	3	23.08	2 1.1	.8	0.00	(ס	0	0	0	C	0
Jane Street Capital,																		
LLC(JNST)	74		12.27	72 17	.82	2	15.38	0.0	00	0.00)	ס	0	0	0	C	0

New York Stock																
Exchange(NYSE) 6	11.28	0	0.00	0	0.00	68	40.24	0	0.00	0	0	0	ס	0	0	(
G1 Execution																
Services, LLC(ETMM) 6	10.61	61	15.10	0	0.00	3	1.78	0	0.00	0	0	0	ס	0	0	(
Cboe EDGX US																
Equities																
Exchange(EDGX) 3	5.31	0	0.00	0	0.00	32	18.93	0	0.00	0	0	0	D	0	0	(
NYSE Arca(ARCA) 2	28 4.64	0	0.00	0	0.00	28	16.57	0	0.00	0	0	0	0	0	0	(
Instinet																
BlockCross(BLKX) 1	16 2.65	0	0.00	0	0.00	0	0.00	16	94.12	0	0 (0	0	0	0 0	(
NASDAQ Execution																
Services, LLC(NSDQ) 1	15 2.49	0	0.00	0	0.00	15	8.88	0	0.00	0	0	0	D	0	0	(
Two Sigma																
Securities,																
LLC(SOHO)	9 1.49	8	1.98	1	7.69	0	0.00	0	0.00	0	0		0	0	0	(

October 2023

Option Contracts

Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
28	8 100.00	33	11.46	48	16.67	20	70.83	3	1.04

Venues

Venues																				
Venue - Non- directed Order Flow	Non-Directed Orders		n-Directed ders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)		on-Marketable nit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders	Net Paymen Paid/Receiv Market Ord	the contract of the contract o	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	Net Payment Paid/Received for Other Orders(USD)	
Citadel Securities	Oracis	0.0	uci 5(70)	Market Gracis	Triance Orders(70)	OT GETS	Marketable Limit Oracis(70)		int Oracis	Zimit Gracis(70)	other orders	other orders	inarie ora	indica shares,	Orders(OSD)	nanarea shares _j	ziiiit Oracis(OOD)	per manarea snares	outier orders(ood)	per manarea shares _j
LLC(CDRG)		1.47	44.82	,	20 60	61	4	53.33	100	40.	10	2	100.00	0	0					
LLC(CDRG)		147	44.02	4	20 60	.01 2	4	55.55	100	40.	19	3	100.00	0	U	U	U	U	0	0
Wolverine Execution Services LLC(WEXX) Dash Financial		78	23.78	3	0 0	.00	1	2.22	77	31.	17	0	0.00	0	0	0	0	0	0	0 0
Technologies																				
LLC(DASH)		66	20.12	2	2 6	.06	7	15.56	57	23.	08	0	0.00	0	0	0	0	0	0	0 0
Susquehanna Capital Group(SUSQ)		25	7.62	2	11 33	.33 1	1	24.44	3	1.	21	0	0.00	0	0	0	0	0	0	0 (
Morgan Stanley & Company		10	0.00			00		4.44					0.00							
LLC(MSCO)		12	3.66)	U U	.00	4	4.44	10	4.	וסו	۷Į	0.00	U	U	υ	U	υ	υĮ	U U

November 2023

S&P 500 Stocks Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
328	100.00	288	87.80	12	3 66	27	8 23	1	0.30

Venue

venues																		
												Net Payment Paid/Received for	Net Payment	Net Payment Paid/Received for	Net Payment	Net Payment Paid/Received for		Net Payment
											Net Payment	Market	Paid/Received for	Marketable Limit	Paid/Received for	Non-Marketable	Net Payment	Paid/Received for
Venue - Non-	Non-Directed	Non-Directed	l e		Marketable Limit		Non-Marketable	Non-Marketable			Paid/Received for	Orders(cents per	Marketable Limit	Orders(cents per	Non-Marketable	Limit Orders(cents	Paid/Received for	Other Orders(cents
directed Order Flo	ow Orders	Orders(%)	Market Orders	Market Orders(%)	Orders	Marketable Limit Orders(%)	Limit Orders	Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD)	hundred shares)	Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)	per hundred shares)
Citadel Securities																		
LLC(CDRG)		103	25.62	9 34.38	3		16.67	1 0.9	9	1 100.00		O C	0	0	0	0	0	0
VIRTU Americas,																		
LLC(NITE)		74	18.41 66	6 22.92	2		41.67	3 2.9	7	0.00		o	0	0	0	0	0	'0

G1 Execution																			
Services, LLC(ETMM)	72	17.91	6	6	22.92	4	33.3	3	2 1.98	0	0	.00	0 (0	C	0	0	0	0
NASDAQ Execution																			
Services, LLC(NSDQ)	65	16.17			0.00	0	0.0	65	64.36	0	0	.00	0	0	C	0	0	0	0
Jane Street Capital,																			
LLC(JNST)	50	12.44	4	9	17.01	1	8.3	3	0.00	0	0	.00	0	0	C	0	0	0	0
Cboe EDGX US																			
Equities																			
Exchange(EDGX)	14	3.48			0.00	0	0.0	14	13.86	0	0	.00	0	o	C	0	0	0	0
New York Stock																			
Exchange(NYSE)	13	3.23			0.00	0	0.0	13	12.87	0	0	.00	0	0	C	0	0	0	0
Two Sigma																			
Securities,																			
LLC(SOHO)	5	1.24		5	1.74	0	0.0	0	0.00	0	0	.00	0	0	C	0	0	0	0
Members																			
Exchange(MEMX)	3	0.75			0.00	О	0.0	0	3 2.97	0	0	.00	0	o c	C	0	0	0	0
UBS Securities,																			
LLC(UBSS)	2	0.50		2	0.69	0	0.0		0.00	0	0	.00	0	o o	C	0	0	0	0

November 2023

Non-S&P 500 Stocks

Summary

								Non-Marketable		
		Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total	l Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orde	ers	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
	430	100.00	342	79.53	31	7.21	49	11.40	8	1.86

Venues

venues																			
Venue - Non- directed Order Flow	Non-Directed Orders	Non-Dir Orders(Market Orders	Market Orders(%	Marketable Limit) Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(US	Net Payment Paid/Received for Market Orders(cents per D) 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	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cent
Citadel Securities	Oracis	Oracis	(70)	Warket Orders	Warket Orders(70	oruers	Widthetable Limit Orders(70)	Elline Orders	Elline Gracis(70)	Other Orders	Other Orders(70)	Warket Orders(03	Dy Harrar Ca Sharesy	Oracis(OSD)	manarea shares;	Limit Orders(OSD)	per manarea snares	other orders(osb)	per manarea share
LLC(CDRG)		158	29.10	1:	30 38	.01	3 43.3	3 1	3 8.0	67	2	9.52	0	0		0	0	0	0
VIRTU Americas,																			
LLC(NITE)		100	18.42		85 24	.85	7 23.3	3	3 2.0	00	5 23	3.81	0	0		0	0	0	0
New York Stock																			
Exchange(NYSE)		75	13.81		0 0	.00	0.0	0 7	5 50.	00	0	0.00	0	0	0	0	0	0	0
G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST)		71	13.08			5.42 5.08	6 20.0 4 13.3		2 1.: 1 0.:			0.00	0	0		0	0	0	0
Cboe EDGX US Equities			11.00				10.0		1 0.			0.00				<u> </u>			
Exchange(EDGX)		25	4.60		0 0	.00	0.0	2	5 16.0	67	0 (0.00	0	0	0	0	0	0	0
NASDAQ Execution Services, LLC(NSDQ)		22	4.05		0 0	.00	0.0	00 2	2 14.	67	0	0.00	0	0		0	0	0	0
Instinet BlockCross(BLKX)		13	2.39			.00	0.0		0 0.			1.90	0	0		0	0	0	0
Members Exchange(MEMX)		7	1.29			.00	0.0		7 4.			0.00	0	0		0	0	0	0
Two Sigma Securities, LLC(SOHO)		5	0.92			17	0 0.0		1 0.			0.00	0	0		0	0	0	0

November 2023

Option Contracts

Summary

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

			07.45				50.00		
204	100.00	56		26	12.75	120	58.82	2	0.98

Venues

venues																			
Venue - Non- directed Order Flow	Non-Directed Orders		Ion-Directed Orders(%)	Market Orders	Market Orders(Marketable Limit %) Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)		Other Orders(%)	Net Payment Paid/Received for Market Orders(US	Net Payment Paid/Received for Market Orders(cents per D) hundred shares)		Orders(cents per	Paid/Received for Non-Marketable	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	The state of the s	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities																			
LLC(CDRG)		108	45.57		29	51.79		50.00 6	6 4	2.04	2 100.	00	0	0	0	0	0		0
Wolverine Execution Services LLC(WEXX) Susquehanna		46	19.41		0	0.00		0.00 4		9.30	0 0.		0	0	0	0	0 0		0
Capital Group(SUSQ)	39	16.46	-	18	32.14	7	31.82 1	4	8.92	0 0.	00	0	0	0	0	0 0		0
Dash Financial Technologies LLC(DASH)		33	13.92		5	8.93	3	13.64 2	5 1	5.92	0 0.	00	0	0	0	0	0		0
Morgan Stanley & Company		11			4														
LLC(MSCO)		TT	4.64		4	7.14	L	4.55	기	3.82	0	00	U	U	U	υ	U C	и с	<u> </u>

December 2023

S&P 500 Stocks

Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
339	100.00	291	85.84	22	6.49	24	7.08	2	0.59

Venues

Venue - Non- directed Order Flow	Non-Directed Orders		on-Directed ders(%)	Market Orders	Market Orders(%	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(US	Net Payment Paid/Received for Market Orders(cents per D) 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)	
Citadel Securities																			
LLC(CDRG)		118	32.87	1	.07 36	.77	7 31.8	32	3 6.8	32	1 5	0.00	0 () () (0	0)	0 0
VIRTU Americas,		75	20.89		65 22	24	3 13.0		6 13.6	24	1 5	0.00							
LLC(NITE)		/5	20.69		05 22	.34	5 13.1	04	13.6	04	1 3	0.00)		,) 	0 0
G1 Execution																			
Services, LLC(ETMM))	70	19.50		66 22	.68	9.0	9	2 4.5	55	0	0.00	0			0	0		0 0
Jane Street Capital,	1										1						-		
LLC(JNST)		60	16.71		49 16	.84	9 40.9	91	2 4.5	55	0	0.00	0)		0	0		0 0
New York Stock																			
Exchange(NYSE)		10	2.79		0 (.00	0.0	00 1	0 22.7	73	0	0.00	0 ()) (0	0)	0 0
Cboe EDGX US																			
Equities																			
Exchange(EDGX)		9	2.51		0 (.00	0.1	00	9 20.4	45	0	0.00	0 (((0	0 ()	0 0
NASDAQ Execution																			
Services, LLC(NSDQ)		9	2.51		0 (.00	0.0	00	9 20.4	15	0	0.00	0 ()) (0	0		0 0
Two Sigma																			
Securities,		_						[
LLC(SOHO)		5	1.39		4 1	.37	1 4.1	55	0.0)()	0	0.00	0 () () (U	0)	0 0
Members			0.04			00						0.00						,	
Exchange(MEMX)		3	0.84	<u> </u>	U (.00	0.0	וטו	6.8	32	U	0.00	U ()	<u>/</u>	U	U	<u>/ </u>	0

December 2023

Non-S&P 500 Stocks Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
521	100.00	445	85.41	20	3.84	Į.	10.36	2	0.38

Venues						_													
Venue - Non- directed Order Flov	Non-Directed w Orders	Non-Directed Orders(%)		et Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USI	Market Orders(cents per	Net Payment Paid/Received for	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Citadel Securities					, ,		, ,		,		, ,			ì	•				
LLC(CDRG)	1	74	27.49	155	34.83	12	60.00	o	7	.70	0.0	0	0			0	0)	0 0
VIRTU Americas,																			
LLC(NITE)	1	19	18.80	114	25.62		10.00	o	3 2	.01	0.0	0	0	0		0	0 0		0 0
G1 Execution Services, LLC(ETMN		02	16.11	96	21.57	2	20.00	0	2 1	.34	0.0	0	0 0) ()	0	0 0		0 0
Jane Street Capital, LLC(JNST)	,	01	12.80	77	17.30		10.00			.34	0.0	.0							
LEC(JNST)		01	12.00	,,	17.50		. 10.00		2	.04	0.0								
NASDAQ Execution Services, LLC(NSDQ		60	9.48	0	0.00	(0.00		60 40	.27	0.0	0	0 0)		0	0 0		0 0
Cboe EDGX US Equities																			
Exchange(EDGX)		29	4.58	0	0.00	(0.00	ס	29 19	.46	0.0	0	0 0	0		0	0 0)	0 0
New York Stock																			
Exchange(NYSE)		26	4.11	0	0.00	(0.00	0	26 17	.45	0.0	0	0 0	0)	0	0 0)	0 0
Members Exchange(MEMX)		19	3.00	0	0.00		0.00		19 12	.75	0 0.0	0	0			0	0)	0 0
Instinet BlockCross(BLKX)		17	2.69	0	0.00		0.00			.00 1	7 89.4		0 (0	0		
UBS Securities, LLC(UBSS)		2	0.47	1	0.22		0.00			.67	1 5.2								
LLC(UB33)		3	0.47	1	0.22	1	0.00	J	Τ (.07	5.2	.0	U U	<u>'I</u>	ן/	υ	UJ U	'1	U U

December 2023

Option Contracts Summary

							Non-Marketable		
	Non-Directed		Market Orders as %		Marketable Limit		Limit Orders as % of		Other Orders as % of
Total Non-Directed	Orders as % of All		of Non-Directed	Total Marketable	Orders as % of Non-		Non-Directed		Non-Directed
Orders	Orders	Total Market Orders	Orders	Limit Orders	Directed Orders	Total Non-Marketable Limit Orders	Orders	Total Other Orders	Orders
117	100.00	45	38.46	6	5.13	65	55.56	1	0.85

Venues

venues																	
Venue - Non- directed Order Flow Orders	Non-Directed Orders(%)			Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)	Other 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)	Paid/Received for Non-Marketable	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(cent
Citadel Securities																	
LLC(CDRG)	55	42.97	42.22	4	ı	57.14	31 41	.33	1 100.00				0	0	0		
Dash Financial Technologies																	
LLC(DASH)	28	21.88 10	22.22	2	2	28.57	16 21	.33	0.00) () ()	0	0	0 0	()
Wolverine Execution																	
Services LLC(WEXX)	22	17.19 0	0.00	О		0.00	22 29	.33	0.00) () (0	0	0 0	C	
Susquehanna	40	10.50	04.44			14.00											
Capital Group(SUSQ)	16	12.50 14	31.11	1	l 	14.29	1 1	.33	0.00) () ()	U	0	0	()
Morgan Stanley & Company LLC(MSCO)	7	5.47	2 4.44	0		0.00	5 6	.67	0.00				0	0	0 0		