









UBS SECURITIES LLC	11.38	15.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VRTU	11.38	15.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American LLC (MTE)																			
Value - Non-dividend Order Flow	Non-Dividend 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(Lions per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(Lions per hundred shares)						
JANE STREET CAPITAL LLC (JSTC)	7.69	7.69	0	0	0	0	0	0	0	0	0	0	0						
TWO SIGMA SECURITIES LLC (TSIG)	7.69	7.69	0	0	0	0	0	0	0	0	0	0	0						
Material Aspects																			
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Mar-23																			
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Non-S&P 500 Stocks																			
Summary																			
Value	Non-Dividend Orders as % of All Orders	Market Orders as % of Non-Dividend Orders	Marketable Limit Orders as % of Non-Dividend Orders	Non-Marketable Limit Orders as % of Non-Dividend Orders	Other Orders as % of Non-Dividend Orders	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(Lions per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(Lions per hundred shares)						
100	53.23	46.47	0	0	0	0	0	0	0	0	0	0	0						
Values																			
Value - Non-dividend Order Flow	Non-Dividend 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(Lions per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(Lions per hundred shares)						
TWO SIGMA SECURITIES LLC (TSIG)	49.95	37.5	43.84	0	0	0	0	0	0	0	0	0	0						
JANE STREET CAPITAL LLC (JSTC)	26.84	26	32.67	0	0	0	0	0	0	0	0	0	0						
Circle Securities LLC (CSL)	13.33	25	0	0	0	0	0	0	0	0	0	0	0						
GI Execution Services LLC (GES)	13.33	0	39.37	0	0	0	0	0	0	0	0	0	0						
VRTU	6.64	13.1	0	0	0	0	0	0	0	0	0	0	0						
American LLC (MTE)																			
Material Aspects																			
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Mar-23																			
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Options																			
Summary																			
Value	Non-Dividend Orders as % of All Orders	Market Orders as % of Non-Dividend Orders	Marketable Limit Orders as % of Non-Dividend Orders	Non-Marketable Limit Orders as % of Non-Dividend Orders	Other Orders as % of Non-Dividend Orders	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(Lions per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(Lions per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(Lions per hundred shares)						
0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Values																			
Value - Non-Dividend Orders	Market Orders	Marketable Limit Orders	Non-Marketable Limit Orders	Other Orders	Net Payment Paid/Received for Market Orders	Net Payment Paid/Received for Marketable Limit Orders	Net Payment Paid/Received for Non-Marketable Limit Orders	Net Payment Paid/Received for Other Orders											
dividend Orders (%)	(%)	(%)	Limit Orders (%)	(%)	Orders(Lions per hundred shares)	Orders(USD)	Orders(Lions per hundred shares)	Orders(USD)											
Order Flow			(%)		Orders(USD)	Orders(Lions per hundred shares)	Orders(USD)	Orders(Lions per hundred shares)											