

/" +/" iZ ~ &+2\$-"' %\$i ~ "\$". iJ #&K	~ &+Z =, "' %\$i ~ "\$".)i GA	i * (" % ~ "\$".)i ;GA	i * (" %2#i i @-% "\$".)i ;GA	~ &+Z i * (" %2#i i @-% "\$".)i ;GA	~ "%". i ~ "\$".)i ;GA	~ "%i * >@" +% 1*-\$LZ "' -M\$ih&i i * (" % ~ "\$".); fl=A	~ "%i * >@" +%i *-\$L Z "' -M\$ih&i i * (" % ~ "\$".); "' +%i, ". i ?/+\$. "\$i) ?*.")A	~ "%i * >@" +%i *-\$L Z "' -M\$ih&i i * (" %2# i @-% ~ "\$".); "' +%i, ". i ?/+\$. "\$i) ?*.")A	~ "%i * >@" +%i *-\$L Z "' -M\$ih&i i * (" %2# i @-% ~ "\$".); fl=A	~ "%i * >@" +%i *-\$L Z "' -M\$ih&i &+Z i * (" %2# i @-% ~ "\$".); fl=A	~ "%i * >@" +% 1*-\$LZ "' -M\$ih&i ~ "%". i ~ "\$".); fl=A	~ "%i * >@" +%i *-\$L Z "' -M\$ih&i "%". i ~ "\$".); "' +%i, ". i ?/+\$. "\$i) ?*.")A
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Two Sigma
Securities, LLC
(SOHO)

1.01

0.78

12.50

1.02

0.00

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Citadel Securities LLC (CDRG)	29.36	40.64	40.54	3.42	21.52	0	0.0000	0	0.0000	0	0.0000	0	0.0000

NYSE Arca (ARCA):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Members Exchange (MEMX):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

D/ #16567

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~ &+Z=-" %\$! ". \$".)i)iG1&H. #. \$".)	† *.("% % . \$".)i*)iG1&H ~ &+Z=-" %\$! ". \$".)	† *.("% 2# il -@-% ". \$".)i*)iG1&H~ &+Z =-" %\$! ". \$".)	~ &+Z† *.("% 2# il -@-% ". \$".)i*)iG1&H~ &+Z =-" %\$! ". \$".)	" %". .i. \$".)i*)iG1&H ~ &+Z=-" %\$! ". \$".)
100.00	21.05	3.76	75.19	0.00

/ " +/ ")

/ " +/ ") ~ &+ZS- " %\$! ". \$".)i ". \$".)i#&K	~ &+Z =-" %\$! ". \$".)i; GA	† *.("% ". \$".)i ; GA	† *.("% 2# il l -@-% . \$".)i ; GA	~ &+Z † *.("% 2# il l -@-% . \$".)i ; GA	" %". .i ". \$".)i	~ " %i * > @ " + %i * - \$L 1 * - \$LZ " " - M \$i H & . i † *.("% ". \$".) ; fl=A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	~ " %i * > @ " + %i * - \$L Z " " - M \$i H & . i † *.("% 2# il -@-% ". \$".) ; "+" %i . . i ? / + \$. " \$i) ? * . ") A	
Citadel Securities LLC (CDRG)	56.83	71.43	80.00	51.89	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	21.58	0.00	0.00	28.30	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	10.07	7.14	0.00	11.32	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	8.63	21.43	20.00	4.72	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Morgan Stanley & Company LLC (MSCO)	2.88	0.00	0.00	3.77	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000

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Citadel Securities LLC (CDRG):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Wolverine Execution Services LLC (WEXX):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Dash Financial Technologies LLC (DASH):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Susquehanna Capital Group (SUSQ):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

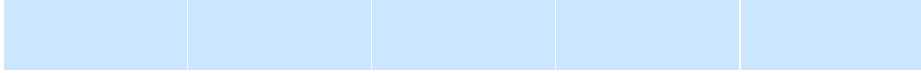
Morgan Stanley & Company LLC (MSCO):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

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VIRTU Americas, LLC (NITE):

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New York Stock Exchange (NYSE)	5.27	0.00	0.00	31.40	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	4.81	0.00	0.00	28.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Instinet BlockCross (BLKX)	3.70	0.00	0.00	0.00	75.47	0	0.0000	0	0.0000	0	0.0000	0	0.0000

New York Stock Exchange (NYSE):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Two Sigma Securities, LLC (SOHO):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Cboe EDGX US Equities Exchange (EDGX):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

UBS Securities, LLC (UBSS):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

Instinet BlockCross (BLKX):

[Insert discussion of the material aspects of the relationship with this venue pursuant to rule 606(a)(1)(iv).]

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/" +/") ~&+2S-."%\$i ~.\$".iJ#K	~&+2 =".'%\$i ~.\$".iGA	!*(("% ~.\$".i) ;GA	!*(("%2#i l-@-%.\$".i) ;GA	~&+2 !*(("%2#i l-@-%.\$".i) ;GA	~%".i ~.\$".i) ;GA	~"%i*>@"+%" 1*-\$LZ""-M\$H&i !*(("% ~.\$".i);"+%i,".i ~.\$".i); fl=A	~"%i*>@"+%"-\$L Z""-M\$H&i!*(("% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i!&+z !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i!&+z !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i!&+z !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A	~"%i*>@"+%"-\$L Z""-M\$H&i!&+z !*(("%2#i@-% ~.\$".i);"+%i,".i ?/+\$. "\$i)?*."A
Citadel Securities LLC (CDRG)	47.27	45.45	0.00	47.73	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Susquehanna Capital Group (SUSQ)	27.27	54.55	0.00	20.45	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	12.73	0.00	0.00	15.91	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	10.91	0.00	0.00	13.64	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Morgan Stanley
& Company LLC
(MSCO)

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