

ABN AMRO CLEARING CHICAGO LLC	Electronic Exchange Member
AMS DERIVATIVES B.V.	Market Maker
APEX CLEARING CORPORATION	Electronic Exchange Member
BARCLAYS CAPITAL INC.	Electronic Exchange Member
BOFA SECURITIES, INC.	Electronic Exchange Member
CITADEL SECURITIES LLC	Market Maker & Electronic Exchange Member
CITIGROUP GLOBAL MARKETS INC.	Electronic Exchange Member
CREDIT SUISSE SECURITIES (USA) LLC	Electronic Exchange Member
CUTLER GROUP, LP	Market Maker & Electronic Exchange Member
DASH FINANCIAL TECHNOLOGIES LLC	Electronic Exchange Member
DEUTSCHE BANK SECURITIES INC.	Electronic Exchange Member
GLOBAL EXECUTION BROKERS, LP	Electronic Exchange Member
GOLDMAN SACHS & CO. LLC	Electronic Exchange Member
GROUP ONE TRADING LP	Electronic Exchange Member
HRT FINANCIAL LLC	Electronic Exchange Member
IMC-CHICAGO, LLC D/B/A IMC FINANCIAL MARKETS	Market Maker
INSTINET, LLC	Electronic Exchange Member
INTERACTIVE BROKERS LLC	Electronic Exchange Member
J.P. MORGAN SECURITIES LLC	Electronic Exchange Member
JANE STREET CAPITAL, LLC	Electronic Exchange Member
JANE STREET OPTIONS, LLC	Electronic Exchange Member
JEFFERIES LLC	Electronic Exchange Member
JUMP TRADING, LLC	Market Maker
MATRIX EXECUTIONS, LLC	Electronic Exchange Member
MERRILL LYNCH PROFESSIONAL CLEARING CORP.	Electronic Exchange Member
MORGAN STANLEY & CO. LLC	Market Maker & Electronic Exchange Member
OPTIVER US LLC	Market Maker
PERSHING LLC	Electronic Exchange Member
SIMPLEX TRADING, LLC	Electronic Exchange Member
SUSQUEHANNA INVESTMENT GROUP	Market Maker
SUSQUEHANNA SECURITIES	Market Maker
TWO SIGMA SECURITIES, LLC	Market Maker & Electronic Exchange Member
UBS SECURITIES LLC	Electronic Exchange Member
VOLANT EXECUTION, LLC	Electronic Exchange Member
WELLS FARGO SECURITIES, LLC	Electronic Exchange Member
WOLVERINE EXECUTION SERVICES, LLC	Electronic Exchange Member
WOLVERINE TRADING, LLC	Market Maker

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