

Alternative Trading Systems with Form ATS
on File with the SEC as of October 31, 2017

Full Name of Alternative Trading System (as provided in item 1.A. of Form ATS)	Name(s) Under Which Business Is Conducted (as provided in item 1.B. of Form ATS)	City and State of Alternative Trading System (as provided in item 1.F. of Form ATS)
Aqua Securities L.P.		New York, NY
Arbor Research and Trading LLC	Clarity BidRate Alternative Trading System	Barrington, IL
ATS-1	Morgan Stanley & Co. Incorporated	New York, NY
ATS-4	Morgan Stanley & Co. Incorporated	New York, NY
ATS-6	Morgan Stanley & Co. Incorporated	New York, NY
Automated Equity Finance Markets, Inc.	AQS, EquiLend Clearing Services (ECS)	New York, NY
AX Trading, LLC		New York, NY
Barclays ATS	LX	New York, NY
Barclays DirectEx		New York, NY
BGC Financial L.P.		New York, NY
BIDS Trading, L.P.	BIDS Trading	New York, NY
BondVision US		New York, NY
Brokertec	Brokertec Americas LLC	New York, NY
CIOI	CIOI is owned and operated by Citigroup Global Markets, Inc. (CGMI)	New York, NY
CitiBLOC	CitiBLOC is owned and operated by Citigroup Global Markets, Inc. (CGMI)	New York, NY
CITICROSS	Citi Cross is owned and operated by Citigroup Global Markets Inc. (CGMI)	New York, NY
CODA Markets, Inc	CODA & CODA ATS	Glenview, IL
Creditex Securities Corporation	ICE Credit Trade	New York, NY
Credit Suisse Securities (USA) LLC	CrossFinder	New York, NY
DBOT ATS, LLC		Wilmington, DE
DBVX		New York, NY
Dealerweb, Inc.	Dealerweb	Jersey City, NJ
Deutsche Bank Securities, Inc.	SuperX	New York, NY
eBX LLC	Level ATS	Boston, MA
Elixium NA	Elixium NA, DBA of TFS Derivatives, LLC	New York, NY
EquiLend LLC		New York, NY
FixCenter, LLC		Long Island City, NY
FNC AG Stock, LLC		Grand Forks, ND
GFI Securities LLC	CreditMatch (LATG)	New York, NY
GFI Securities LLC		New York, NY
Global OTC	Archipelago Trading Services, Inc.	Chicago, IL
HTDOnline	Hartfield, Titus & Donnelly, LLC	Jersey City, NJ
ICAP Trading System	ICAP Corporates LLC	Jersey City, NJ
IDX Markets	IDX Markets, LLC	New York, NY
Instinct X		New York, NY

Instinet Continuous Block Crossing System (CBX)	Instinet, LLC	New York, NY
Instinet, LLC	BlockCross	New York, NY
Instinet, LLC	Instinet Crossing, Instinet BLX	New York, NY
Interactive Brokers LLC	IBKR ATS	Greenwich, CT
JPB-X	JPB-X is owned and operated by J.P. Morgan Securities LLC ("JPMS")	New York, NY
J.P. Morgan ATS ("JPM-X")	J.P. Morgan Securities LLC	New York, NY
JSVC LLC		Honolulu, HI
Lending Club Trading Market	Folio Investments, Inc.	McLean, VA
Liquidity Finance LP	Flow (by Liquidity Finance)	Stamford, CT
Liquidnet Fixed Income ATS		New York, NY
LiquidNet H2O ATS		New York, NY
Liquidnet Negotiation ATS		New York, NY
Luminex Trading & Analytics LLC	Luminex	Boston, MA
Maps ECN	Marco Polo Securities Inc.	New York, NY
MarketAxess Corporation Mid-X Trading System	Mid-X System; Mid-X	New York, NY
MarketAxess Corporation Single-Name CDS Central Limit Order Book	MarketAxess CDS CLOB	New York, NY
MBS Source eTrading, Inc.	MBS Marketplace	Mercer Island, WA
MTS BondsPro		New York, NY
MuniAxis ATS		Wellesley, MA
Nasdaq Fixed Income	Execution Access, LLC	New York, NY
National Financial Services, LLC	CrossStream, CrossStream BLOX SM (BLOCK Liquidity Opportunity Cross)	Boston, MA
NPM Securities, LLC		New York, NY
NXP	Dash Financial Technologies LLC	Chicago, IL
OpenBondX LLC		Miami Beach, FL
Orchard ATS	Orchard Platform Markets LLC	New York, NY
OTC Link ECN		New York, NY
OTC Link LLC	OTC Link ATS	New York, NY
Ouisa Capital LLC	Ouisa Capital	New York, NY
POSIT		New York, NY
PRO Securities, LLC		New York, NY
REALCADRE LLC		New York, NY
Rialto Trading Network LLC		New York, NY
Shares Post Financial Corporation		San Bruno, CA
SIGMA X2	Goldman, Sachs & Co. (GSCO) is the broker-dealer operator of the GSCO ATS	New York, NY
Spot Quote LLC		Austin, TX
Spread Zero LLC	Spread Zero or Spread Zero ATS	New York, NY
Structured Credit Connection		New York, NY
TMC Bonds, LLC		New York, NY
Tradeweb Direct LLC (f/k/a BondDesk Trading LLC)		New York, NY

TruMid ATS		New York, NY
Tullet Prebon Financial Services LLC	tpCreditDeal	Jersey City, NJ
UBS ATS	UBS Securities LLC	New York, NY
Ustocktrade	Ustocktrade Securities, Inc.	Newton, MA
Variable Investment Advisors, Inc. ATS (VIA-ATS)	www.AGSTOCKTRADE.COM, www.LIQUIDITYMAKER.COM	Sioux Falls, SD
Venovate Marketplace Inc.		San Francisco, CA
Virtu BondPoint	BondPoint, a division of Virtu Americas LLC	New York, NY
Virtu MatchIt	Virtu MatchIt a division of Virtu Americas LLC	New York, NY
XE	Weeden & Co. LP	Greenwich, CT
Zanbato ATS	ZX	Mountain View, CA

Ceased Operations

Full Name of Alternative Trading System (as provided in item 1.A. of Form ATS)	Name(s) Under Which Business Is Conducted (as provided in item 1.B. of Form ATS)	City and State of Alternative Trading System (as provided in item 1.F. of Form ATS)
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