

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Abel/Noser Corporation	One Battery Park Plaza	6th Floor	New York	NY	10004	(646) 432-4000	www.abelnoser.com
Access Securities, LLC	30 Buxton Farms Road		Stamford	CT	06905	(203) 322-3377	www.accesssecurities.com
Advanced Equities Services Corp.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 785-3370	
Advanced Trading Partners, LLC	Hunter Heights	Unit 10, Box 716	Hunter	NY	12442	(917) 541-6532	
Aegis Capital Corp.	590 Madison Avenue	27th Floor	New York	NY	10022	(212) 813-1010	www.aegiscapcorp.com
Agency Trading Group, Inc.	235 E Lake Street		Wayzata	MN	55391	(952) 476-9500	www.agencytrading.com
AKJ Inc.	Ocean Centre, Montagu Foreshore	East Bay Street	Nassau			(441) 297-5904	www.akj.com
Alaris Trading Partners, LLC	2002 Jimmy Durante Blvd	Suite 410	Del Mar	CA	92014	(858) 617-6401	www.alaristrading.com
Albert Fried & Company, LLC	60 Broad Street	39th Floor	New York	NY	10004	(212) 422-7282	www.albertfried.com
Allen & Company, LLC	711 5th Ave.	9th Floor	New York	NY	10022	(212) 339-2559	www.alleninvestments.com
Allston Trading, LLC	One Financial Place	440 South LaSalle Street	Chicago	IL	60605	(312) 663-7150	www.allstontrading.com
Alpine Securities Corporation	440 East 400 South		Salt Lake City	UT	84111	(801) 355-5588	www.alpine-securities.com
AltruShare Securities, LLC	10 Middle Street	6th Floor	Bridgeport	CT	06604	(203) 330-8100	www.altrushare.com
American Capital Partners, LLC	205 Oser Avenue		Hauppauge	NY	11788	(631) 851-0918	www.americancapitalpartners.com
Andrew Garrett, Inc.	380 Lexington Avenue	Suite 2135	New York	NY	10168	(212) 682-8833	www.andrewgarrett.com
Apache Trading LLC	c/o Gettenberg Consulting	40 Wall Street, 34th Floor	New York	NY	10005	(212) 668-8700	www.apachetradingllc.com
APB Financial Group, Inc.	17 State Street	Suite 1650	New York	NY	10004	(212) 293-3450	www.apbfinancial.com
Arcadia Securities, LLC	720 Fifth Avenue	9th Floor	New York	NY	10019	(212) 231-4101	www.arcadiacorporatefinance.com
Archipelago Securities, LLC	100 South Wacker Drive	Suite 1800	Chicago	IL	60606	(312) 960-1696	www.tradearca.com
Assent LLC	5 Marine View Plaza	Suite 102	Hoboken	NJ	07030	(201) 356-1400	www.assent.com
Astoria Capital Markets, Inc.	30-08 36th Street		Long Island City	NY	11103	(718) 728-0339	
Audobon Securities, Inc.	9 West 57th Street	27th Floor	New York	NY	10019	(212) 751-4510	
Automated Trading Desk Brokerage Services, LLC	11 East Wall Street		Mount Pleasant	SC	29464	(843) 789-2000	www.atdesk.com
Automated Trading Desk Financial Services, LLC	11 East Wall Street		Mount Pleasant	SC	29464	(843) 789-2080	www.atdesk.com
Avian Securities, LLC	140 Broadway	29th Floor	New York	NY	10005	(212) 232-0333	www.aviansecurities.com
Avondale Partners LLC	3102 West End Avenue	Suite 1100	Nashville	TN	37203	(615) 467-3500	www.avondaleonline.com
B & B Securities Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 952-0085	
B&T Securities Inc.	110 E. Atlantic Avenue	Suite 230	Delray Beach	FL	33444	(877) 864-8714	
B. Riley & Co., LLC	11100 Santa Monica Blvd	Suite 800	Los Angeles	CA	90025	(310) 966-1444	www.brileyco.com
Banc of America Securities LLC	One Bryant Park	3rd Floor	New York	NY	10036	(212) 583-8000	www.bankofamerica.com
Banc of America Specialist, Inc.	14 Wall Street	21st Floor	New York	NY	10005	(212) 589-0400	www.bancofamericaspecialist.com
Banca IMI Securities, Corp.	245 Park Avenue	35th Floor	New York	NY	10167	(212) 326-1100	www.bancaimi.it
Banyan Securities, LLC	100 Drakes Landing Road	#125	Greenbrae	CA	94904	(415) 461-0900	
Barclays Capital Inc.	200 Park Avenue	5th Floor	New York	NY	10166	(888) 227-2275	www.barcap.com
BATS Trading, Inc.	4151 N. Mulberry Drive	Suite 275	Kansas City	MO	64116	(816) 221-8002	www.batstrading.com
Bay Crest Partners, LLC	40 Wall Street	45th Floor	New York	NY	10005	(212) 480-1400	www.baycrestpartners.com
Benjamin & Jerold Brokerage Inc.	111 W. Jackson Blvd.	Suite 1146	Chicago	IL	60604	(312) 341-0816	
BGB Securities Inc.	1100 North Glebe Road	Suite 1040	Arlington	VA	22201-4798	(703) 528-2584	www.bgbinc.com
Biltmore International Corp.	Raritan Plaza I	110 Fieldcrest Ave.	Edison	NJ	08837	(732) 791-4000	
Biremis, Corp.	55 St. Clair Ave. W.		Toronto	ON	M4V 2Y7	(416) 351-0000	www.swiftrade.com
Bishop, Rosen & Co., Inc.	100 Broadway	16th Floor	New York	NY	10005	(212) 285-5500	www.bishop-rosen.com
Bley Investment Group, Inc.	4200 S. Hulen Street	Suite 519	Fort Worth	TX	76109	(817) 732-2442	www.bleyinvestments.com
Blue Capital Group, LLC	440 South LaSalle	Suite 1850	Chicago	IL	60605	(847) 267-6614	
Blue Fire Capital, LLC	311 South Wacker Drive	Suite 2000	Chicago	IL	60606	(312) 451-4581	
Blue Trading, LLC	27 Falls Mountain Road		Falls Village	CT	06031	(800) 246-4410	
Bluefin Research Partners, Inc.	One Boston Place	Suite 3825	Boston	MA	02108	(617) 737-5700	www.bluefinresearch.com
Bluefin Specialists, LLC	3 Park Avenue	37th Floor	New York	NY	10016	(914) 686-3200	
BlueFin Trading LLC	3rd Avenue	37th Floor	New York	NY	10016	(914) 686-3260	
BMA Securities, Inc.	608 Silver Spur Road	Suite 100	Rolling Hills Estate	CA	90274	(949) 218-2486	www.bmascurities.com
BMO Capital Markets Corp.	3 Times Square	27th Floor	New York	NY	10010	(212) 702-1200	www.bmocm.com
BNP Paribas Securities Corp.	787 Seventh Avenue		New York	NY	10019	(212) 841-2000	www.corp.bnpparibas.com

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BNY ConvergeX Execution Solutions LLC	1633 Broadway	48th Floor	New York	NY	10019	(212) 468-7500	www.bnyconverge.com
Boenning & Scattergood, Inc.	Four Tower Bridge	200 Barr Harbor Drive	West Conshohocken	PA	19428-2979	(610) 832-5203	www.boenninginc.com
Brandt Equities LLC	440 South LaSalle Street	Suite 1500	Chicago	IL	60605	(312) 362-4068	
Brashear Trading, LLC	11 Vincent St.		Chatham	NJ	07928	(917) 692-4217	
Brean Murray, Carret & Co.	570 Lexington Avenue	11th Floor	New York	NY	10022	(212) 702-6500	www.bmur.com
Briarcliff Capital Corp.	3200 N. Military Trail	Suite 215	Boca Raton	FL	33431	(561) 994-6229	
Brimberg & Co., LLC	45 Rockefeller Plaza	Suite 2570	New York	NY	10111	(212) 332-4444	
Brinson Patrick Securities Corporation	1515 Broadway	11th Floor	New York	NY	10036	(212) 453-5000	www.brinsonpatrick.com
Broadband Capital Management LLC	805 Third Avenue	15th Floor	New York	NY	10022	(212) 759-2020	www.broadbandcapital.com
Broadpoint Capital, Inc.	677 Broadway		Albany	NY	12207-1599	(518) 447-8500	www.broadpointsecurities.com
Broadpoint.AmTech, Inc.	10 Glenville Street	1st Floor	Greenwich	CT	06831-0368	(203) 978-9600	www.amtechresearch.com
Brookview Capital LLC	One Water Street	Suite 180	White Plains	NY	10601	(914) 328-6650	
BTIG LLC	450 Sansome	16th Floor	San Francisco	CA	94111	(415) 248-2200	www.btig.com
Buckman, Buckman & Reid Inc.	174 Patterson Avenue		Shrewsbury	NJ	07702	(732) 530-0303	www.buckmanbuckman.com
Bulltick Securities, LLC	701 Brickell Avenue	Suite 2550	Miami	FL	33131	(305) 533-1541	
Bulltick, LLC	7891 W. Flagler Street	Suite 557	Miami	FL	33144	(305) 533-1541	www.bulltick.com
C&C Trading LLC	120 Broadway	20th Floor	New York	NY	10271	(212) 433-5470	
C.K. Cooper and Company, Inc.	18300 Von Karman Avenue	Suite 440	Irvine	CA	92612	(949) 477-9300	www.ckcooper.com
Calyon Securities (USA) Inc.	1301 Avenue of the Americas	15th Floor	New York	NY	10019	(212) 408-5700	www.calyon.com
Camelot Investment Advisors, LTD	995 Old Eagle School Road	Suite 320	Wayne	PA	19087	(610) 225-3000	www.camelotltd.com
Cantor Fitzgerald LP	110 East 59th Street		New York	NY	10022	(212) 938-5000	www.cantor.com
Capital Institutional Services, Inc.	1601 Elm St.	Suite 3900	Dallas	TX	75201	(214) 720-0055	www.capis.com
Capstone Global Markets, LLC	44 Wall Street	4th Floor	New York	NY	10005	(212) 232-1464	www.capstoneco.com
CapStone Investments	12760 High Bluff Drive	Suite 120	San Diego	CA	92130	(858) 625-6321	www.capstoneinvestments.com
Casey Securities, LLC	220 Montgomery St., Suite 462		San Francisco	CA	94104	(415) 544-9100	
Cassandra Trading Group LLC	440 S. LaSalle Street	Suite 2101	Chicago	IL	60605	(312) 362-3401	
Castle Oak Securities, LP	110 East 59th Street	2nd Floor	New York	NY	10022	(212) 829-4776	www.castleOaklp.com
Centrade Securities Corp.	3537 Chain Dam Road		Easton	PA	18045	(201) 791-4440	
CF Global Trading, LLC	527 Madison Avenue	18th Floor	New York	NY	10022	(212) 888-4711	
CFT Securities, LLC	379 Thornall Street	6th Floor	Edison	NJ	08837	(732) 632-4148	www.cftsecurities.com
CG Compass (USA) LLC	135 East 57th Street	30th Floor	New York	NY	10022	(212) 355-5770	
Chardan Capital Markets LLC	17 State Street	Suite 2575	New York	NY	10004	(646) 465-9090	www.chardancapitalmarkets.com
Chilian Partners LP	324 Datura Street	Suite 208	West Palm Beach	FL	33401	(561) 833-2700	
ChoiceTrade	197 Route 18	Suite 3000	East Brunswick	NJ	08816	(732) 214-2660	www.choicetrade.com
Churchill Capital USA, Inc.	1270 Avenue of the Americas	Suite 1910	New York	NY	10020	(212) 994-5477	www.churchillcap.com
CIBC World Markets Corp.	300 Madison Avenue		New York	NY	10017	(212) 856-6543	www.cibcwm.com
Citadel Securities LLC	131 S. Dearborn	32nd Floor	Chicago	IL	60603	(312) 395-3116	www.citadelgroup.com
Citigroup Derivatives Markets, Inc.	130 Chesire Lane	Suite 202	Minnetonka	MN	55305	(952) 475-5607	
Citigroup Global Markets Inc.	388 Greenwich Street		New York	NY	10013-2396	(212) 816-6000	www.citigroup.com
CL King & Associates Inc.	9 Elk Street		Albany	NY	12207	(518) 431-3500	www.clking.com
Clancy Financial Services, Inc.	40 Wall Street	38th Floor	New York	NY	10005	(646) 278-4129	
Clearview Correspondent Services, LLC	800 Discovery Drive	Suite 200	Richmond	VA	23229	(804) 643-1811	
CLG Investment Company, Inc.	75 Holly Hills Lane		Greenwich	CT	06830	(203) 629-4315	www.clglazer.com
Cobra Trading Inc.	825 Market Street	Suite 240	Allen	TX	75013	(214) 644-0490	www.cobratrading.com
Cognitive Capital LLC	440 South LaSalle	Suite 1825	Chicago	IL	60605	(312) 431-0400	www.cogcap.com
Cohen Capital Group, LLC	2 Rector Street	15th Floor	New York	NY	10006	(212) 406-9323	www.cohenspecialist.com
Coker & Palmer, Inc.	1667 Lelia Drive		Jackson	MS	39216	(601) 354-0860	www.cokerpalmer.com
Collins Stewart LLC	350 Madison Avenue		New York	NY	10017	(212) 389-8000	www.collins-stewart.com
Compass Point Research & Trading, LLC	1775 I Street	Suite 800	Washington	DC	20006	(202) 741-3670	
Conifer Securities LLC	One Ferry Building	Suite 255	San Francisco	CA	94111	(415) 677-1500	www.conifersecurities.com
Consolidated Trading LLC	440 South LaSalle	Suite 3100	Chicago	IL	60605	(312) 260-5440	

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Cornerstone Trading, LLC	440 South LaSalle	19th Floor	Chicago	IL	60605	(312) 431-7300	
Cowen and Company, LLC	1221 Avenue of the Americas	15th Floor	New York	NY	10020	(646) 562-1000	www.cowen.com
Credit Agricole Cheuvreux North America, Inc.	1301 Avenue of the Americas	15th Floor	New York	NY	10019	(212) 468-7234	
Credit Suisse Securities (USA) LLC	11 Madison Avenue		New York	NY	10010-3629	(212) 325-2000	www.credit-suisse.com
Crowell, Weedon & Co.	One Wilshire Blvd.	624 South Grand Ave.	Los Angeles	CA	90017	(213) 620-1850	www.crowellweedon.com
CRT Capital Group LLC	262 Harbor Drive		Stamford	CT	06902	(203) 569-6400	www.crtllc.com
CTC (Chicago Trading Company), LLC	141 W. Jackson Blvd.	Suite 800	Chicago	IL	60604	(312) 863-8113	
Curtiswood Capital, LLC	104 Woodmont Blvd.	Suite 200	Nashville	TN	37205	(615) 386-0231	
Cutler Securities, Inc.	605 E. Atlantic Ave.	Suite 205	Delray Beach	FL	33483	(561) 279-7471	
Cuttone & Co., Inc.	111 Broadway	10th Floor	New York	NY	10006	(646) 943-5400	www.cuttone.com
D.A. Davidson & Co.	220 Bush Street		San Francisco	CA	94104	(406) 727-4200	www.davidsoncompanies.com
Dahlman Rose & Co LLC	320 Park Avenue	31st Floor	New York	NY	10022	(212) 920-2940	www.dahlmanrose.com
Daiwa Securities America Inc.	32 Old Slip	Financial Square	New York	NY	10005	(212) 612-7000	www.daiwau.com
Dakota Securities International	9100 S. Dadeland Blvd	Unit 908	Miami	FL	33156	(305) 403-7500	www.dakotasecurities.com
DART Executions, LLC	230 S LaSalle Street	Suite 400	Chicago	IL	60604	(312) 244-5000	www.dartexecutions.com
Davis Securities, LLC	475 Park Avenue South	29th Floor	New York	NY	10016	(212) 796-8440	
Delaney Equity Group LLC	5090 PGA Blvd.	Suite 316	Palm Beach Gardens	FL	33418	(561) 202-6016	
DeMatteo Monness LLC	780 Third Avenue	45th Floor	New York	NY	10017	(212) 833-9900	www.dmlc.com
Deutsche Bank Securities Inc.	60 Wall Street		New York	NY	10005	(212) 250-2500	www.db.com
Diamond Carter Trading LLC	120 Broadway	Suite 2040-02	New York	NY	10271	(212) 308-4339	
Dinosaur Securities LLC	443 Park Avenue South	Suite 501	New York	NY	10016	(212) 448-9944	www.dinogroup.com
Direct Access Brokerage Services Inc.	39 S. LaSalle Street	Suite 424	Chicago	IL	60603	(312) 641-9100	
Direct Access Partners, LLC	14 Wall Street	18th Floor	New York	NY	10005	(212) 850-8896	www.dapartners.com
Direct Edge ECN LLC	545 Washington Boulevard		Jersey City	NJ	07310	(201) 356-1738	www.directedgeecn.com
Divine Capital Markets LLC	39 Broadway	36th Floor	New York	NY	10006	(212) 344-5867	www.divinecapital.com
Doft & Co., Inc.	55 East 59th Street	12A	New York	NY	10022	(212) 421-5550	
Domestic Securities, Inc.	160 Summit Avenue		Montvale	NJ	07645	(201) 782-0888	
Dowling & Partners Securities, LLC	190 Farmington Avenue		Farmington	CT	06032-1713	(860) 676-8600	www.dowlingp.com
Dresdner Kleinwort Securities LLC	1301 Avenue of the Americas		New York	NY	10019	(212) 969-2700	www.drkw.com
Driehaus Securities LLC	25 East Erie Street		Chicago	IL	60611	(312) 587-3800	www.driehaus.com
DRW Securities, LLC	311 South Wacker Drive	Suite 900	Chicago	IL	60606	(312) 542-1114	www.drwholdings.com
du Pasquier & Co., Inc.	One Battery Park Plaza		New York	NY	10004	(212) 624-3164	www.dupasco.com
E*Trade Capital Markets LLC	440 South Lasalle	Suite 3030	Chicago	IL	60605	(312) 986-7454	www.capitalmarkets.etrade.com
E*TRADE Clearing LLC	135 East 57th Street	Floors 14-17	New York	NY	10022	(212) 826-8730	www.etrade.com
E-Brokerage LLC	29 Broadway	11th Floor	New York	NY	10006	(212) 509-3309	www.ebrk.com
East Shore Partners, Inc.	150 Motor Parkway	Suite 202	Hauppauge	NY	11788	(631) 622-3100	www.eastshorepartners.com
ECHOTrade LLC	440 S. La Salle Street	Sutie 3100	Chicago	IL	60605	(602) 977-0777	www.echotradeonline.com
EH Smith Jacobs & Co Inc.	30 Broad Street	20th Floor	New York	NY	10004	(212) 742-8130	
Electronic Brokerage Systems, LLC	141 W. Jackson Blvd.	Suite 3510	Chicago	IL	60604	(312) 663-3655	www.belzberg.com
Electronic Global Securities, Inc.	545 Fifth Avenue	Suite 900	New York	NY	10017	(212) 286-1245	
Electronic Securities Processing (ESP) LLC	140 Broadway	21st Floor	New York	NY	10005	(212) 485-5150	
Electronic Transaction Clearing, Inc.	600 S. Figueroa Street	Suite 1450	Los Angeles	CA	90017	(213) 402-1563	
Elm Trading, LP	1900 Market Street		Philadelphia	PA	19103	(267) 342-5051	
Emerging Growth Equities, LTD	1150 First Avenue	Suite 600	King of Prussia	PA	19406	(610) 783-1800	www.egequities.com
Equibond Inc.	1801 Century Park East	Suite 1470	Los Angeles	CA	90067	(310) 260-6000	
Equitec Proprietary Markets, LLC	111 West Jackson	20th Floor	Chicago	IL	60604	(312) 692-7625	www.eqt.com
Equitec Specialists, LLC	111 West Jackson Blvd.	20th Floor	Chicago	IL	60604	(312) 692-5000	
Equity Station, Inc.	3010 N Military Trail	Suite 300	Boca Raton	FL	33431	(561) 981-1069	
Eroom Securities LLC	141 West Jackson	Suite 1310A	Chicago	IL	60604	(312) 362-3401	
Esposito Securities, LLC	300 Crescent Court	Suite 650	Dallas	TX	75201	(866) 277-3058	www.esposecurities.com
Essex Radez LLC	440 South LaSalle Street	Suite 1111	Chicago	IL	60605	(312) 212-1815	www.essexradez.com

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Eucalyptus Partners LLC	220 Montgomery Street	Suite 440	San Francisco	CA	94104	(415) 962-4564	
Euro Pacific Capital, Inc.	10 Corbin Drive	Suite B	Darien	CT	06820	(203) 662-9700	www.europac.net
EWT, LLC	9242 Beverly Blvd.	Suite 300	Beverly Hills	CA	90210	(310) 595-0126	www.ewtcareers.com
Exane, Inc.	640 Fifth Avenue	15th Floor	New York	NY	10019	(212) 634-4990	www.exane.com
Execution Noble LLC	102 Greenwich Avenue		Greenwich	CT	06830	(203) 622-8712	www.execution.tv
Fagenson & Co., Inc.	60 Broad Street		New York	NY	10004	(212) 422-1993	www.fagenson.com
Farina & Associates Inc.	20 Broad Street	7th Floor	New York	NY	10005	(212) 668-8700	www.farinaandassociates.com
FAT Securities, LLC	8560 W. Sunset Blvd.	6th Floor	Los Angeles	CA	90069	(310) 285-2719	
Fat Squirrel Trading Group LLC	21 Johnson Drive		Millbrook	NY	12545	(845) 677-9101	
FBN Securities, Inc.	14 Wall Street	30th Floor	New York	NY	10005	(212) 571-2722	www.floorbrokernet.com
FBR Capital Markets & Co.	1001 Nineteenth Street North		Arlington	VA	22209	(703) 312-9500	www.fbr.com
FCG Advisors LLC	One Main Street	Suite 202	Chatham	NJ	07928	(973) 635-7347	
Finacorp Securities	2302 Martin Street		Irvine	CA	92612	(949) 852-6561	
Finance 500, Inc.	19762 MacArthur Blvd.	Suite 200	Irvine	CA	92612	(949) 253-4000	www.finance500.com
First American Capital & Trading Corp.	1499 West Palmetto Road	Suite 250	Boca Raton	FL	33486	(561) 948-7470	www.factc.com
First Analysis Securities Corp.	One S. Wacker Drive	Suite 3900	Chicago	IL	60606	(312) 258-1400	www.firstanalysis.com
First Clearing LLC	901 East Byrd Street, 12th Floor	Mail Code WS2491	Richmond	VA	23219	(804) 965-2200	www.firstclearing.com
First Dallas Securities, Inc.	2905 Maple Avenue		Dallas	TX	75201	(214) 954-1177	www.firstdallas.com
First Manhattan Co.	437 Madison Avenue	30th Floor	New York	NY	10022	(212) 756-3300	www.firstmanhattan.com
First New York Securities Co. LLC	850 Third Avenue		New York	NY	10022	(212) 848-0600	www.fnysllc.com
First Southwest Company	325 North St. Paul	Suite 800	Dallas	TX	75201	(214) 953-4000	www.firstsouthwest.com
First Washington Corporation	601 Union Street	Suite 3003	Seattle	WA	98101	(206) 624-8320	www.first-wash.com
Firstrate Securities Inc.	133-25 37th Avenue		Flushing	NY	11354	(800) 869-8800	www.firstrate.com
Forge Financial Group Ltd	7682 N. Federal Hwy.	Suite 1	Boca Raton	FL	33487	(561) 416-9880	www.forgefinancial.com
Fortis Clearing Americas LLC	175 West Jackson Blvd.	4th Floor	Chicago	IL	60604	(312) 604-8000	www.eoconnor.com
Fox River Execution Tech LLC	2100 Enterprise Avenue		Geneva	IL	60134	(630) 406-6411	www.frexe.com
Fred Alger & Company, Inc.	600 Plaza One		Jersey City	NJ	07311	(800) 223-3810	www.algerfund.com
FTN Equity Capital Markets Corp.	1301 East Ninth Street	Suite 3232	Cleveland	OH	44114	(216) 592-1700	www.midwestresearch.com
Fusion Analytics Securities, LLC	535 5th Ave	Suite 612	New York	NY	10017	(212) 572-6260	
FutureTrade Securities LLC	26110 Enterprise Way		Lake Forest	CA	92630	(949) 999-2146	www.futuretrade.com
G&L Partners, Inc.	10 Liberty Street	Suite 21F	New York	NY	10005	(212) 217-0074	
G-Bar, LP	440 S. LaSalle Street	Suite 650	Chicago	IL	60605	(312) 362-4211	
Gabelli & Company, Inc.	One Corporate Center		Rye	NY	10580-1433	(914) 921-5000	www.gabelli.com
Gagnon Securities, LLC	1370 Avenue of the Americas	Suite 202	New York	NY	10019	(212) 554-5000	www.gagnonsec.com
Gallagher, Michael Francis	401 S. LaSalle Street	#1000	Chicago	IL	60605	(312) 663-1307	
Gar Wood Securities, LLC	440 S. LaSalle St	Suite 2201	Chicago	IL	60605	(312) 566-0741	www.garwoodsecurities.net
Gaussian Group, LLC (The)	Two Rector Street	3rd Floor	New York	NY	10006	(212) 659-3885	
GDK, Inc.	500 Park Avenue	7th Floor	New York	NY	10022	(441) 295-0329	
Gelber Securities LLC	141 W. Jackson Blvd	Suite 2100A	Chicago	IL	60604	(312) 408-4343	
Genesis Securities, LLC	50 Broad Street	Suite 288	New York	NY	10004	(212) 668-0888	
Getco Execution Services LLC	141 West Jackson Blvd.	Suite 210	Chicago	IL	60604	(312) 242-4600	
GETCO Securities, LLC	141 W. Jackson Blvd.	Suite 210	Chicago	IL	60604	(312) 242-4600	
GFI Securities LLC	100 Wall Street		New York	NY	10005	(212) 968-2927	www.gfigroup.com
Gilder, Gagnon, Howe & Co. LLC	1775 Broadway		New York	NY	10019	(212) 765-2500	www.gghc.com
Girard Securities	9560 Waples Street	Suite B	San Diego	CA	92121	(858) 622-2140	www.girardsecurities.com
Glendale Securities, Inc.	15233 Ventura Blvd	Suite 712	Sherman Oaks	CA	91403	(818) 907-1505	www.glendalesecurities.com
Global Credit Partners LLC	19 Spear Road	Suite 102	Ramsey	NJ	07446	(201) 669-3433	www.globalcreditpartners.com
Global Crown Capital, LLC	101 California Street	Suite 4550	San Francisco	CA	94111	(415) 402-0900	www.globalcrowncapital.com
Global Execution Brokers, LP	401 City Avenue		Bala Cynwyd	PA	19004	(610) 617-2661	
Golden Beneficial Securities Corp.	5850 San Felipe	Suite 111	Houston	TX	77057	(713) 781-9708	www.goldenbeneficialsec.com
Goldman Sachs Execution & Clearing, LP	30 Hudson Street		Jersey City	NJ	07302	(212) 433-2266	www.gs.com

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Goldman, Sachs & Company	One New York Plaza	85 Broad Street	New York	NY	10004	(212) 902-1000	www.gs.com
Grace Financial Group, LLC	25 Hampton Road		Southampton	NY	11968	(631) 287-4633	www.gracefg.com
Gray Whale Capital, LLC	10 East Yanonali Street	Suite 2A	Santa Barbara	CA	93101	(805) 845-7546	
Greywolf Execution Partners, Inc.	c/o Gettenberg Consulting	40 Wall Street, 34th Floor	New York	NY	10005	(212) 809-0579	
Griswold Company, Inc. (The)	1 Exchange Plaza	55 Broadway - 27th Floor	New York	NY	10006	(212) 509-2100	www.thegriswoldco.com
Group One Trading, LP	2 Rector Street	Suite 1001	New York	NY	10006	(646) 827-6000	www.group1.com
Guzman & Company	101 Aragon Avenue		Coral Gables	FL	33134	(305) 374-3600	www.guzman.com
Haberman Brothers	900 Third Avenue	7th Floor	New York	NY	10022	(212) 610-2670	
Hamilton Executions L.L.C.	71 Broadway	Suite 12J	New York	NY	10006	(917) 974-0034	
Hampton Securities (USA) Inc.	141 Adelaide Street West	Suite 1800	Toronto	ON	M5H3L5	(416) 862-7800	www.hamptonsecurities.com
HAP Trading, LLC	33 Whitehall Street	6th Floor	New York	NY	10004	(212) 380-5115	
Hapoalim Securities USA Inc.	One Battery Park Plaza	2nd Floor	New York	NY	10004	(212) 898-6200	www.investec.com
Hard Eight Trading, LLC	141 W. Jackson Blvd	Suite 1180	Chicago	IL	60604	(312) 346-2589	
Hardcastle Trading USA LLC	755 Secaucus Road	Suite F1110	Secaucus	NJ	07094	(201) 305-8888	
Hazan Capital Management, LLC	98-50 67th Avenue	Apt 5E	Forest Hills	NY	11375	(917) 887-9025	
Heflin & Co. LLC	2101 Rosecrans Avenue	Suite 3220	El Segundo	CA	90245	(310) 335-9705	www.heflinco.com
Hold Brothers On-Line Investment Services LLC	525 Washington Blvd.	Suite 1400A	Jersey City	NJ	07310	(201) 499-8700	
Hollencrest Capital Management	100 Bayview Circle	Suite 500	Newport Beach	CA	92660	(949) 737-7700	www.hollencrest.com
HSBC Securities (USA) Inc.	452 Fifth Avenue		New York	NY	10018	(212) 525-5000	www.hsbcnet.com
Hudson Securities, Inc.	525 Washington Blvd.	Suite 3600	Jersey City	NJ	07310	(201) 216-0100	www.hudsonsecurities.com
Hunter Capital Markets LLC	440 S. LaSalle Street	Suite 1749	Chicago	IL	60604	(312) 362-3670	
Huntleigh Securities Corp.	7800 Forsyth Blvd.	5th Floor	Saint Louis	MO	63105	(314) 236-2400	
IBS Securities, LLC	55 W. Jackson Blvd.	Suite 450	Chicago	IL	60604	(312) 582-6720	
ICAP Corporates, LLC	Harborside Financial Center	1100 Plaza Five, 12th Floor	Jersey City	NJ	07311	(212) 341-9944	www.garban.com
Illustro Trading, LLC	c/o MAC Consulting Group Inc.	2 Rector Street - Suite 2102	New York	NY	10006	(212) 267-6011	
IMC Financial Markets	233 South Wacker Drive	Suite 4610	Chicago	IL	60606	(312) 362-3713	www.imc-trading.com
Imperial Capital LLC	2000 Avenue of the Stars	9th Floor, South	Los Angeles	CA	90067	(310) 246-3700	www.imperialcapital.com
Infinium Capital Management	600 W. Chicago Avenue	Suite 300 North	Chicago	IL	60654	(312) 601-7800	www.infiniumcm.com
Infinium Securities Inc	1115 Magnolia Ave		Larkspur	CA	94939	(416) 360-1920	www.infiniumsecurities.com
Ingalls & Snyder, LLC	61 Broadway		New York	NY	10006	(212) 269-7800	www.ingalls.net
Instinet, LLC	Three Times Square		New York	NY	10036	(212) 310-9500	www.instinet.com
Interactive Brokers LLC	Two Pickwick Plaza	1st Floor	Greenwich	CT	06830	(203) 618-5700	www.interactivebrokers.com
International Correspondent Trading, Inc.	525 Washington Blvd.	#2401	Jersey City	NJ	07310	(201) 222-9300	www.ictbroker.com
Intrade, LLC	2 Rector Street	Suite 1103	New York	NY	10006	(212) 566-2484	www.intradegroup.com
Investscape Inc.	7001 Orchard Lake Road	Suite 120	West Bloomfield	MI	48322	(248) 757-2839	www.investscape.net
Island Trader Securities, Inc.	44 Montgomery Street	Suite 3020	San Francisco	CA	94104	(415) 354-2800	
Israel A. Englander & Co	666 Fifth Avenue	9th Floor	New York	NY	10103	(415) 954-5555	www.iaenglander.com
ITG Derivatives LLC	601 South LaSalle Street	Suite 300	Chicago	IL	60605	(312) 334-8000	www.itg.com
ITG Incorporated	380 Madison Avenue		New York	NY	10017	(917) 344-5500	www.itg.com
J.H. Darbie & Co.	99 Wall Street		New York	NY	10005	(212) 269-7271	www.jhdarbie.com
J.P. Morgan Clearing Corp.	One Metrotech Center North		Brooklyn	NY	11201	(347) 643-1000	www.globalclearing.com
J.P. Morgan Securities Inc.	383 Madison Avenue		New York	NY	10179	(212) 272-2000	www.jpmorgan.com
Janco Partners, Inc.	5251 DTC Parkway	Suite 415	Englewood	CO	80111	(303) 770-3200	www.janco.com
Jane Street Capital, LLC	One New York Plaza	33rd Floor	New York	NY	10004	(212) 651-6032	www.janestcapital.com
Jane Street Markets LLC	One New York Plaza	33rd Floor	New York	NY	10006	(212) 651-6032	www.janestcapital.com
Jefferies & Company Inc.	520 Madison Ave	11th Floor	New York	NY	10022	(212) 425-7460	www.jefferies.com
Jefferies Execution Services Inc.	520 Madison Avenue		New York	NY	10022	(212) 284-2300	www.jefco.com
Jesup & Lamont Securities Corp.	650 Fifth Avenue	3rd Floor	New York	NY	10019	(212) 918-0400	www.jesuplamont.com
JMP Securities LLC	600 Montgomery Street	Suite 1100	San Francisco	CA	94111	(415) 835-8900	www.jmpsecurities.com
JNK Securities Corp.	489 Fifth Avenue	25th Floor	New York	NY	10017	(212) 885-6300	www.jnksecurities.com
John N. Seip & Co., Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 668-8700	

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Johnson Rice & Company L.L.C.	639 Loyola Avenue	Suite 2775	New Orleans	LA	70113	(504) 525-3767	www.jrco.com
JonesTrading Institutional Services LLC	32133 West Lindero Canyon Road	Suite 208	Westlake Village	CA	91361-4226	(818) 865-8349	www.jonestrading.com
Joseph Grace Holdings, Inc.	44 Wall Street	12th Floor	New York	NY	10005	(212) 461-2280	www.josephgrace.com
Jump Trading LLC	600 W. Chicago Ave.	Suite #825	Chicago	IL	60610	(312) 930-9603	
Kabrik Trading, LLC	11 Broadway	Suite 814	New York	NY	10004	(212) 825-4000	www.kabrik.com
Kaufman Bros., L.P.	800 Third Avenue	30th Floor	New York	NY	10022	(212) 292-8110	www.kbro.com
KCCI, Ltd.	80 Maiden Lane	Suite 2201	New York	NY	10004	(212) 742-9507	www.kccidirect.com
Keeffe, Bruyette & Woods, Inc.	787 Seventh Avenue	4th Floor	New York	NY	10019	(212) 887-7777	www.kbw.com
Keeley Investment Corporation	401 South LaSalle	Suite 1201	Chicago	IL	60605	(312) 786-5000	www.kic-kamco.com
Kellogg Capital Markets, LLC	55 Broadway	4th Floor	New York	NY	10006	(212) 607-5000	www.psgllc.com
Kellogg Partners Institutional Services	55 Broadway	3rd Floor	New York	NY	10006	(212) 380-5600	www.kelloggpartners.com
Kern, Suslow Securities, Inc.	50 Broad Street	Suite 1600	New York	NY	10004	(212) 943-8891	www.kernsuslow.com
Kershner Securities, LLC	1825B Kramer Lane	Suite 200	Austin	TX	78758	(512) 539-1900	
Kevin Dann & Partners, LLC	400 Madison Avenue		New York	NY	10017	(212) 901-4060	www.kevindann.com
Kingside Partners, LLC	845 Third Avenue	6th Floor	New York	NY	10022	(646) 290-5175	
Knight Capital Markets, Inc.	525 Washington Blvd.		Jersey City	NJ	07310	(201) 557-6944	www.knight.com
Knight Clearing Services LLC	545 Washington Blvd.		Jersey City	NJ	07310	(201) 222-9400	www.knight.com
Knight Equity Markets, L.P.	Newport Tower	545 Washington Boulevard	Jersey City	NJ	07310	(201) 222-9400	www.knight-sec.com
LaBranche & Co. LLC	33 Whitehall Street		New York	NY	10004	(212) 425-1144	www.labranche.com
LaBranche Financial Services, LLC	33 Whitehall Street	7th Floor	New York	NY	10004	(212) 482-3500	www.labfs.com
LaBranche Structured Products Direct	33 Whitehall	9th Floor	New York	NY	10004	(212) 820-0423	
LaBranche Structured Products LLC	55 Broadway	14th Floor	New York	NY	10006	(646) 458-9354	
Ladenburg, Thalmann & Co., Inc.	153 E. 53rd Street	49th Floor	New York	NY	10022	(212) 409-2000	www.Ladenburg.com
Lampost Capital	7777 Glades Road	Suite 213	Boca Raton	FL	33434	(561) 883-0454	www.thelampost.com
Latam Investments, LLC	1200 Brickell Avenue	Suite 800	Miami	FL	33131	(305) 579-9705	
LavaFlow, Inc.	95 Morton Street	6th Floor	New York	NY	10014	(212) 519-8965	
Lazard Capital Markets LLC	30 Rockefeller Plaza		New York	NY	10020	(212) 632-6000	www.lazardcap.com
Leerink Swann & Co.	One Federal Street		Boston	MA	02110	(800) 808-7525	www.leerink.com
Legend Merchant Group, Inc.	160 Spear Street	Second Floor	San Francisco	CA	94105	(212) 809-5568	www.legendmerchant.com
Legend Securities, Inc.	39 Broadway	Suite 740	New York	NY	10006	(646) 254-4200	www.legendsecuritiesinc.com
Legend Trading, LLC	39 Broadway	Suite 740	New York	NY	10006	(212) 344-5747	
Legent Clearing LLC	9300 Underwood Avenue	Suite 400	Omaha	NE	68114	(402) 384-6123	www.legentclearing.com
Lek Securities Corporation	140 Broadway	29th Floor	New York	NY	10005	(212) 509-2300	www.roxsystems.com
LF Financial, LLC	150 East Palmetto Drive	Suite 450	Boca Raton	FL	33432	(561) 613-4727	www.lf-financial.com
Lighthouse Financial Group, LLC	420 Lexington Avenue	Suite 1430	New York	NY	10170	(212) 277-8130	www.lhfg.net
Lightspeed Trading, LLC	148 Madison Avenue	9th Floor	New York	NY	10016	(646) 393-4800	www.lightspeed.com
Lime Brokerage LLC	625 Broadway	12th Floor	New York	NY	10012	(212) 219-6000	www.limebrokerage.com
Linkbrokers Derivatives Corp Inc.	120 Woosier Street	5th Floor	New York	NY	10012	(212) 925-0116	www.linkbrokers.co.uk
Liquidnet Inc.	498 Seventh Avenue	12th Floor	New York	NY	10018	(646) 674-2000	www.liquidnet.com
Liquidpoint, LLC	311 S. Wacker Drive	Suite 4700	Chicago	IL	60606	(312) 986-2000	www.bnyconvergex.com
Livermore Trading Group, Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 747-9450	www.lttrade.com
Loeb Partners Corporation	61 Broadway	Suite 2400	New York	NY	10006	(212) 483-7000	www.loebpartners.com
Lombardi & Co., Inc.	29 Broadway	Trinity Place - 1st Floor	New York	NY	10006	(212) 809-3591	
Longbow Securities, LLC	6000 Lombardo Center	Suite# 500	Independence	OH	44131	(216) 328-5098	
Loop Capital Markets LLC	200 W. Jackson	Suite 1600	Chicago	IL	60606	(312) 913-4900	www.loopcap.com
Louis Capital Markets, LP	500 Fifth Avenue	Suite 2010	New York	NY	10110	(212) 398-6000	www.louiscapital.com
M.R. Beal & Company	110 Wall Street	6th Floor	New York	NY	10005	(212) 983-3930	www.mrbeal.com
M.S. Howells & Co.	20555 North Pima Road	Suite 100	Scottsdale	AZ	85255	(480) 563-2000	www.mshowells.com
Madison Proprietary Trading Group LLC	250 Park Avenue S	10th Floor	New York	NY	10002	(212) 684-8580	
Magna Securities Corp.	420 Lexington	Suite 2220	New York	NY	10170	(212) 547-3740	www.magnasecurities.com
Mako USA LLP	25 Christopher Street		London		EC2A2BS	+44 (0 207) 862-0400	

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Mark Stewart Securities	18101 Von Karman Ave	Suite 330	Irvine	CA	92612	(949) 955-2400	
Marquis Holdings Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 668-8700	www.marq.cc
Mastertrader.com	7-11 South Broadway	Suite 405	White Plains	NY	10601	(914) 422-2966	www.mastertrader.com
Matrix Capital Group, Inc.	420 Lexington Ave	Ste 601	New York	NY	10170	(212) 652-3296	www.matrixcapitalgroup.com
Maxim Group LLC	405 Lexington Avenue	2nd Floor	New York	NY	10174	(212) 895-3500	www.maximgrp.com
MB Trading, Inc.	1926 East Maple		El Segundo	CA	90245	(866) 628-3001	
McAdams Wright Ragen, Inc.	925 Fourth Avenue	Suite 3900	Seattle	WA	98104	(206) 664-8850	www.mwrinc.com
MDB Capital Group LLC	401 Wilshire Blvd.	Suite 1020	Santa Monica	CA	90401	(310) 526-5000	www.mdb.com
Meeting Street Brokerage	969 Southeast Federal Highway	Suite 101	Stuart	FL	34994	(772) 220-6627	www.meetst.com
Mercator Associates, LLC	121 Richmond Street West	Suite 601	Toronto		M5H 2K1	(416) 640-7410	
Meridian Equity Partners, Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 742-8472	www.meptraders.com
Merlin Securities, LLC	101 California Street	Suite 2525	San Francisco	CA	94111	(415) 848-4051	www.merlinsecurities.com
Merrill Lynch Professional Clearing Corp.	222 Broadway	6th Floor	New York	NY	10038	(212) 670-2000	www.mlprocc.ml.com
Merrill Lynch, Pierce, Fenner & Smith, Inc.	1 Bryant Park		New York	NY	10036	(212) 449-1000	www.ml.com
Merriman Curhan Ford & Co.	600 California Street	9th Floor	San Francisco	CA	94108	(415) 248-5600	www.merrimanco.com
Merrion Securities LLC	210 Elmer Street		Westfield	NJ	07090	(908) 654-0033	www.merriongroup.net
Mesirow Financial Inc.	350 North Clark Street		Chicago	IL	60610	(312) 595-6000	www.mesirowfinancial.com
MF Global Inc.	440 S. LaSalle Street	20th Floor	Chicago	IL	60605	(312) 663-7500	www.mfglobal.com
Mid Atlantic Capital Corp	1251 Waterfront Place	Suite 510	Pittsburgh	PA	15222	(412) 391-7077	www.macg.com
Midwood Securities, Inc.	One Battery Park Plaza	24th Floor	New York	NY	10004	(212) 742-9600	www.midwood.com
Millenco, LLC	666 Fifth Avenue	8th Floor	New York	NY	10103-0899	(212) 841-4401	www.mlp.com
Millennium Funding Associates LLC	666 Fifth Avenue	8th Floor	New York	NY	10103	(212) 841-4100	www.mlp.com
Miller Tabak & Co., LLC	331 Madison Avenue		New York	NY	10017	(212) 370-0040	www.millertabak.com
Mitsubishi UFJ Securities (USA), Inc.	1633 Broadway	29th Floor	New York	NY	10019	(212) 405-7000	
MKM Partners	ONE Sound Shore Drive	3rd Floor	Greenwich	CT	06830-7251	(203) 861-9060	www.mkmpartners.com
MND Partners, Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 656-5000	www.mndpartners.com
MNR Executions, LLC	440 S. LaSalle	Suite 1988	Chicago	IL	60605	(312) 431-7363	
MOG Capital LLC	2 Rector Street	3rd Floor	New York	NY	10006	(212) 659-3874	
Mogavero, Lee & Co., Inc.	20 Broad Street	14th Floor	New York	NY	10005	(212) 943-0235	www.mogaverolee.com
Monarch Capital Group LLC	500 Fifth Avenue	Suite 2240	New York	NY	10110	(212) 808-4333	www.monarch-capital.com
Monarch Financial Corporation of America	230 Park Avenue	Suite #939	New York	NY	10169	(212) 332-7000	www.monarchfinancialcorp.com
Monness Crespi Hardt & Co., Inc.	767 Third Avenue		New York	NY	10017	(212) 838-7575	www.mchny.com
Monroe Securities, Inc.	343 West Erie	Suite 410	Chicago	IL	60610	(312) 506-8750	www.monroesecurities.com
Montecito Advisors, Inc.	2015B State Street	Suite B	Santa Barbara	CA	93105	(805) 957-4202	
Moors & Cabot, Inc.	111 Devonshire Street		Boston	MA	02109	(617) 426-0500	www.moorscabot.com
Morgan Joseph & Co Inc.	600 Fifth Avenue	19th Floor	New York	NY	10020	(212) 218-3700	www.morganjoseph.com
Morgan Keegan & Company, Inc.	50 North Front Street	Morgan Keegan Tower	Memphis	TN	38103	(901) 524-4100	www.morgankeegan.com
Morgan Stanley & Co., Incorporated	1585 Broadway	4th Floor	New York	NY	10036	(212) 761-4000	www.ms.com
MTG, LLC	250 Park Avenue South	10th Floor	New York	NY	10003	(212) 404-1790	
Multitrade Securities LLC	60 Madison Avenue	6th Floor	New York	NY	10010	(212) 277-8175	www.multitrade.net
Murphy & Durieu	120 Broadway	17th Floor	New York	NY	10271	(212) 618-0900	www.murphy.com
Nasdaq Execution Services, LLC	165 Broadway	51st Floor	New York	NY	10006	(212) 401-8982	www.nasdaqtrader.com
National Financial Services LLC	200 Seaport Boulevard		Boston	MA	02110	(800) 800-6890	www.nationalfinancial.com
Natixis Bleichroeder, Inc.	1345 Avenue of the Americas		New York	NY	10105	(212) 698-3000	www.natixisblr.com
Natixis Securities North America Inc.	9 West 57th Street		New York	NY	10019	(212) 891-6100	www.ixisfunding.com
NDX Trading, Inc.	900 Long Lake Road	Suite 101	New Brighton	MN	55112	(612) 331-8225	www.ndxtrading.com
Needham & Company LLC	445 Park Avenue	3rd Floor	New York	NY	10022	(212) 371-8300	
Neonet Securities, Inc.	111 Pavonia Avenue	Suite 317	Jersey City	NJ	07310	(201) 526-8600	www.neonet.com
Neuberger Berman LLC	605 Third Avenue		New York	NY	10158-3698	(212) 476-9000	www.nb.com
Newbridge Securities Corporation	1451 West Cypress Creek Road	Suite 204	Fort Lauderdale	FL	33309	(954) 334-3450	www.newbridgesecurities.com
Newedge USA, LLC	630 Fifth Avenue	Suite 500	New York	NY	10111	(646) 557-9000	www.newedgegroup.com

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
NexBank Securities, Inc.	13455 Noel Road	Suite 1710	Dallas	TX	75240	(972) 308-6718	
Noble International Investments Inc.	6501 Congress Avenue		Boca Raton	FL	33487	(561) 994-1191	www.nobleresearch.com
NobleTrading.com Inc.	50 Broad Street	Suite 408	New York	NY	10004	(212) 810-2200	www.nobleresearch.com
Nollenberger Capital Partners Inc.	101 California Street	Suite 3100	San Francisco	CA	94111	(415) 402-6000	www.nollenbergercapital.com
Nomura Securities International, Inc.	2 World Financial Center	Building B - 25th Floor	New York	NY	10281-1198	(212) 667-9300	www.nomura.com
Northeast Securities Inc.	100 Wall Street		New York	NY	10005	(212) 607-5400	www.nesec.com
Northern Trust Securities, Inc.	50 South LaSalle		Chicago	IL	60603	(312) 444-4331	www.northerntrust.com
Northpoint Trading Partners, LLC	4555 Mansell Road	Suite 140	Alpharetta	GA	30022	(678) 405-4200	www.nptradingpartners.com
Nova Capital Markets, LLC	120 Broadway	20th Floor	New York	NY	10271	(212) 344-6334	www.508securities.com
Nunami Services, LLC	410 17th Street	Suite 570	Denver	CO	80202	(303) 914-2839	www.nunami.net
Nutmeg Securities, LLC	257 Riverside Avenue	1st Floor	Westport	CT	06880	(203) 255-3838	www.nutmegsecurities.com
NWT Financial Group, Inc.	275 1st Place NW		Issaquah	WA	98027	(425) 295-0400	www.nwtfinancialgroup.com
Oakpoint Advisors LLC	1055 Franklin Avenue	Suite 300	Garden City	NY	11530	(516) 535-5735	www.wimslc.com
Obex Securities LLC	1865 Palmer Avenue		Larchmont	NY	10538	(914) 833-1800	www.obexgroup.com
OC Securities Inc.	22672 Lambert St.	Suite 602	Lake Forest	CA	92630	(949) 887-7226	www.ocsecurities.com
Oceancross Capital, LLC	58 Rose Avenue		Great Neck	NY	11021	(718) 303-2120	www.ocross.com
Octeg, LLC	141 West Jackson Blvd	Suite 210	Chicago	IL	60605	(312) 242-4600	
OES Brokerage Services, LLC	194 Nassau Street	Suite 30	Princeton	NJ	08542	(609) 430-0100	www.tradeoes.com
Oien Securities, Inc.	127 Torrence Blvd	Suite 101	Redondo Beach	CA	90277	(310) 798-2825	
Old Mission Capital, LLC	601 South LaSalle	3rd Floor	Chicago	IL	60605	(646) 279-5016	
Olympus Securities LLC	170 Changebridge Road	Suite B-1	Montville	NJ	07045	(973) 575-7020	
Online Brokerage Services, Inc.	10200 Waterville St.		Whitehouse	OH	43571	(419) 482-4500	www.onlinebrokerageservices.com
Oppenheimer & Co. Inc.	125 Broad Street	15th Floor	New York	NY	10004	(212) 668-8000	www.opco.com
OptionsXpress, Inc.	311 West Monroe Street	Suite 1000	Chicago	IL	60606	(312) 630-3323	www.optionsxpress.com
Optiver US, LLC	130 E. Randolph Street	Suite 1300	Chicago	IL	60601	(312) 821-9500	www.optiver.com
Orion Trading, LLC	650 Sand Lake Road	Suite 245	Orlando	FL	32809	(407) 839-0600	www.oriontradingllc.net
Oscar Gruss & Son, Incorporated	74 Broad Street	15th Floor	New York	NY	10004-2247	(212) 943-6313	www.oscargruss.com
OTA, LLC	One Manhattanville Road	Suite 460	Purchase	NY	10577	(914) 460-4000	www.otrglobal.com
OTR Global Trading LLC	1 Manhattanville Road		Purchase	NY	10577	(914) 694-5800	
Pacific American Securities LLC	9191 Towne Center Drive	Suite 406	San Diego	CA	92122	(858) 320-2850	www.pacamsecurities.com
Pacific Crest Securities LLC	111 SW Fifth Avenue	42nd Floor	Portland	OR	97204	(503) 248-0721	www.pacific-crest.com
Pali Capital Inc.	650 Fifth Avenue	6th Floor	New York	NY	10019	(212) 259-2600	www.palicapital.com
Paloma Securities LLC	Two American Lane		Greenwich	CT	06836	(203) 862-8000	
PCS Dunbar Securities, LLC	2 Manhattanville Road		Purchase	NY	10577	(914) 694-3700	
PDQ ATS, Inc.	20 Rockhouse Rd.		Wilton	CT	06897	(917) 359-9168	www.imperial-investments.com
PEAK6 Capital Management LLC	141 W. Jackson	Suite 500	Chicago	IL	60604	(312) 362-2408	www.peak6.com
Pelion Securities Corporation	650 Fifth Avenue	17th Floor	New York	NY	10019	(917) 639-5450	
PennMont Securities	83 East Lancaster Avenue		Paoli	PA	19301	(610) 644-3936	
Penserra Securities, LLC	20 Broad Street	Suite 2602	New York	NY	10005	(212) 607-3190	
Penson Financial Services, Inc.	1700 Pacific Avenue	Suite 1400	Dallas	TX	75201	(214) 765-1000	www.penson.com
Pershing Advisor Solutions LLC	One Pershing Plaza		Jersey City	NJ	07399	(201) 413-2130	www.pershingadvisorsolutions.com
Pershing LLC	One Pershing Plaza		Jersey City	NJ	07399	(201) 413-2301	www.pershing.com
Pinnacle Capital Markets, LLC	4700 Falls of Neuse Road	Suite 390	Raleigh	NC	27609	(919) 850-0888	www.pcmtrading.com
Pipeline Trading Systems LLC	60 East 42nd Street	Suite 624	New York	NY	10165	(800) 680-7473	www.pipelinefinancial.com
Piper Jaffray & Co.	800 Nicollet Mall	Suite 800	Minneapolis	MN	55402-3804	(612) 303-6000	www.pjc.com
Platinum Trading LLC	440 South LaSalle Street	Suite 713	Chicago	IL	60605	(312) 362-4688	
Portales Partners LLC	32 East 31 Street	10th Floor	New York	NY	10016	(212) 414-5958	www.portalespartners.com
Precision Securities, LLC	16885 Via del Campo Court	Suite #120	San Diego	CA	92127	(858) 673-6653	
Prime Executions, Inc.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 785-0200	www.primexe.com
Princeton Financial Group	2 King Arthur Court	Lakeside West Corporate Center	North Brunswick	NJ	08902	(732) 249-6400	www.prinfin.com
Princeton Securities Group, Inc.	65 Broadway	Suite 1001	New York	NY	10006	(212) 825-9163	www.princetonsecurities.com

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
PRO Securities LLC	194 Nassau Street		Princeton	NJ	08542	(609) 430-0100	
PSG Executions Inc.	65 Broadway	Suite 1001	New York	NY	10006	(212) 480-8863	
Pulse Trading, Inc.	2 Liberty Square	2nd Floor	Boston	MA	02109	(617) 316-5620	www.pulsetrading.com
Puma Capital, LLC	777 Brickell Avenue	Suite 1010	Miami	FL	33131	(305) 416-5870	
Quantlab Securities LP	4200 Montrose Blvd.	Suite 200	Houston	TX	77006	(713) 333-3700	
Quattro M. Securities Inc.	2 White Birch Road		Pound Ridge	NY	10576	(212) 344-5661	www.quattromsecurities.com
Quiet Light Securities LLC	141 West Jackson	Suite 2020A	Chicago	IL	60604	(312) 431-0573	
R. F. Lafferty & Co. Inc.	80 Broad Street	26th Floor	New York	NY	10004	(212) 293-9090	www.rflafferty.com
R. W. Pressprich & Co. Inc.	520 Madison Avenue	28th Floor	New York	NY	10022	(212) 832-6250	www.pressprich.com
Radnor Research & Trading Company, LLC	290 King of Prussia Road	Radnor Station 2, Suite 120	Radnor	PA	19087	(610) 293-2000	www.rtrtco.com
Rafferty Capital Markets, LLC	33 Whitehall Street	10th Floor	New York	NY	10004	(516) 877-5300	www.raffcap.com
Raven Securities Corp.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 267-6011	www.ravenservices.us
Raymond C. Forbes & Co., Inc.	30 Broad Street	20th Floor	New York	NY	10004	(212) 425-7317	www.rcfco.com
RBC Capital Markets Corporation	One Liberty Plaza	165 Broadway	New York	NY	10006	(612) 371-2968	www.rbccm.com
RBS Securities Inc.	600 Steamboat Road		Greenwich	CT	06830	(203) 625-2700	www.rbsgc.com
Regal Securities, Inc	950 Milwaukee Ave		Glenview	IL	60025	(847) 375-6020	www.regalsecurities.com
Rhino Trading Partners, LLC	80 Broad Street	5th Floor	New York	NY	10004	(212) 837-7710	
Rice, Voelker, LLC	805 E. Rutland Street		Covington	LA	70433	(985) 898-3477	
Ridge Clearing & Outsourcing Solutions, Inc.	2 Journal Square Plaza	3rd Floor	Jersey City	NJ	07306	(212) 747-1400	www.adpcos.com
River Cross Securities, LLLP	401 City Avenue	Suite 220	Bala Cynwyd	PA	19004	(610) 617-2600	
Robotti & Company LLC	110 East 42nd Street	Suite 110	New York	NY	10017	(212) 986-4800	www.robottico.homestead.com
Rochdale Securities LLC	570 Lexington Avenue	8th Floor	New York	NY	10022	(212) 588-3400	www.rochdale.com
Rodman & Renshaw, LLC	1251 Avenue of the Americas	20th Floor	New York	NY	10020	(212) 356-0509	www.rodmanandrenshaw.com
Ronin Capital LLC	230 South LaSalle Street	Suite 400	Chicago	IL	60604	(312) 244-5000	www.ronin-capital.com
Rosenblatt Securities, Inc.	20 Broad Street	26th Floor	New York	NY	10005	(212) 943-5225	www.rblt.com
Rothschild Lieberman Ltd.	280 Railroad Avenue		Greenwich	CT	06830	(203) 340-9922	www.rothschildlieberman.com
Rushmore Capital, Inc.	160 Summit Avenue		Montvale	NJ	07645	(201) 782-0888	
Rydex Distributors, Inc.	9601 Blackwell Road		Rockville	MD	20850	(301) 296-5100	www.rydexinvestments.com
S. Goldman Capital LLC	641 Lexington Avenue	18th Floor	New York	NY	10022	(212) 404-5732	
S.J. Levinson & Sons LLC	2700 Westchester Avenue	Suite 109	Purchase	NY	10577	(914) 220-1654	www.sjlevinson.com
Safe Harbor Securities, Inc	3131 Turtle Creek Blvd	Suite 915	Dallas	TX	75219	(214) 521-1200	www.safeharborsec.com
Sallerson-Troob, LLC	440 S. LaSalle	Suite 950	Chicago	IL	60605	(312) 260-5810	
Samco Capital Markets Inc.	6805 Capital of Texas Highway	Suite 350	Austin	TX	78731	(512) 794-9100	www.samcocapital.com
Samurai Trading, LLC	515 Madison Avenue	Suite 5W	New York	NY	10022	(212) 935-9835	
Sandler O'Neill & Partners, LLC	919 3rd Avenue	6th Floor	New York	NY	10022	(212) 466-7800	www.sandleroneill.com
Sanford C. Bernstein & Co., LLC	1345 Avenue of the Americas	15th Floor	New York	NY	10105	(212) 486-5800	www.bernstein.com
Saratoga Capital Markets	40 Wall Street	60th Floor	New York	NY	10005	(212) 422-1750	www.saratogacapital.com
Scarsdale Equities LLC	30 Rockefeller Plaza	Suite 4250	New York	NY	10112	(212) 433-1375	www.scarsdale-equities.com
Schon-Ex LLC	One Jericho Plaza		Jericho	NY	11753	(516) 822-0202	www.schonfeld.com
Schottenfeld Group LLC	800 Third Avenue	10th Floor	New York	NY	10022	(212) 300-2200	
Scott & Stringfellow, LLC	909 East Main Street		Richmond	VA	23219	(804) 643-1811	www.scottstringfellow.com
Scottsdale Capital Advisors Corp.	7170 E. McDonald Road	Suite 6	Scottsdale	AZ	85253	(480) 603-4900	www.scottsdalecapital.com
Sea Port Group Securities LLC	360 Madison Avenue	22nd Floor	New York	NY	10017	(212) 616-7700	www.theseaportgroup.com/
Seaboard Securities Inc.	18 Columbia Turnpike		Florham Park	NJ	07932	(973) 514-1500	www.seaboardsecurities.com
Seaport Securities Corporation	60 Broad Street	31st Floor	New York	NY	10006	(212) 482-8689	www.seaportsecurities.com
Securities & Investment Planning Company	19 Center Street		Chatham	NJ	07928	(973) 701-8033	www.siponline.com
Security Research Associates Inc.	80 East Sir Francis Drake Blvd.	Suite 3F	Larkspur	CA	94939	(415) 925-0346	www.sracap.com
Seven Points Capital, LLC	825 Third Avenue	2nd Floor	New York	NY	10022	(212) 760-0760	www.sevenpointscapital.com
SG Americas Securities, LLC	1221 Avenue of the Americas		New York	NY	10020	(212) 278-6000	www.socgen.com
SHD Holdings LLC	5907 Long Court		Austin	TX	78730	(212) 626-2843	
Shoreline Trading Group, LLC	2301 Rosecrans Avenue	Suite 4195	El Segundo	CA	90245	(310) 536-8670	www.shorelinetrading.com

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Sidoti & Company LLC	317 Madison Avenue	14th Floor	New York	NY	10017	(212) 297-0001	www.sidoti.com
Signal Hill Capital Group, LLC	6225 Smith Avenue	Suite 202	Baltimore	MD	21209	(443) 796-4000	www.signalhill.com
Silver Leaf Partners LLC	620 Fifth Avenue	Rockefeller Center	New York	NY	10020	(212) 632-8421	
Sloan Securities Corp.	900 South Avenue	Suite 60	Staten Island	NY	10314	(201) 592-9900	www.sloansecurities.com
SMC Option Management LLC	440 S. LaSalle Street	19th Floor	Chicago	IL	60605	(312) 523-8900	
SMF Trading, Inc.	125 Maiden Lane, Suite 314		New York	NY	10038	(212) 509-1985	
SMH Capital Inc.	3100 J.P. Morgan Chase Tower	58th Floor	Houston	TX	77002-3003	(713) 250-4222	www.smhcapital.com
Solaris Securities Inc.	24165 IH-10 W	Ste. 217-647	San Antonio	TX	78257-1159	(210) 507-5118	www.solarissec.com
Soleil Securities Corporation	360 Madison Avenue	3rd Floor	New York	NY	10017	(212) 380-4800	www.soleilgroup.com
Soloway & Co	6801 S.W. 101 Street		Miami	FL	33156-6060	(305) 668-3389	
Sound Securities LLC	1400 Old Country Road	Suite 209	Westbury	NY	11590	(516) 393-0500	www.soundsecurities.com
Southridge Investment Group LLC	90 Grove Street		Ridgefield	CT	06877	(203) 431-8081	www.southridge1.com
Southwest Securities Inc.	1201 Elm Street	Suite 3500	Dallas	TX	75270	(214) 859-9164	www.swst.com
Spartan Securities Group, Ltd.	100 Second Avenue South	Suite 300N	Saint Petersburg	FL	33701	(727) 502-0508	www.spartansecurities.com
Stanford Group Company	330 Madison Avenue	36th Floor	New York	NY	10017	(713) 964-8300	www.stanfordgroup.com
Stephen M. Ferretti, Inc.	ACI	40 Wall Street - 34th Floor	New York	NY	10005	(212) 509-1982	
Sterne Agee Clearing Inc.	800 Shades Creek Parkway	Suite 700	Birmingham	AL	35209	(205) 949-3500	www.sterneagee.com
Sterne, Agee & Leach, Inc.	800 Shades Creek Parkway	Suite 700	Homewood	AL	35209	(205) 949-3500	www.sterne-agee.com
Stock USA Investments	1717 Route 6	Suite 101	Carmel	NY	10512	(800) 874-3039	www.stockusainvest.com
Stone Securities Corporation	100 Franklin Street		Boston	MA	02110	(617) 297-2160	www.stonesecuritiescorp.com
STR Specialists LLC	5 East 17th Street	Apt. 7	New York	NY	10003	(917) 769-6573	
Stuart Frankel & Co., Incorporated	22 Bayview Avenue	2nd Floor	Manhasset	NY	11030	(212) 943-8787	www.stuartfrankel.com
Stuyvesant Trading Group, L.L.C.	2 Rector Street	Suite 306	New York	NY	10006	(212) 659-3886	
Success Trade Securities, Inc.	1900 L Street NW	Suite 525	Washington	DC	20036	(202) 466-6890	www.successtrade.com
Summer Street Research Partners	1 Beacon Street	34th Floor	Boston	MA	02108	(617) 338-7500	www.ssrp.com
Sun Trading LLC	100 S.Wacker	Suite 225	Chicago	IL	60606	(312) 924-4777	
Sunrise Securities Corp.	641 Lexington Avenue	25th Floor	New York	NY	10022	(212) 421-1616	www.sunrisecorp.com
Surge Trading Inc.	885 3rd Avenue	18th Floor	New York	NY	10022	(212) 230-8200	
Susquehanna Capital Group	401 City Avenue		Bala Cynwyd	PA	19004	(610) 617-2661	www.susq.com
Susquehanna Financial Group, LLP	401 City Avenue		Bala Cynwyd	PA	19004	(610) 617-2600	www.susq.com
Susquehanna Investment Group, L.L.P.	401 City Ave	Suite 220	Bala Cynwyd	PA	19004	(610) 617-2600	www.sig.com
Susquehanna Securities	401 City Avenue	Suite 220	Bala Cynwyd	PA	19004	(212) 709-5363	
TD Ameritrade Clearing Inc.	P.O. Box 2226	4211 South 102nd Street	Omaha	NE	68103-2226	(402) 970-5656	www.amtd.com
TD Professional Execution Inc	230 South LaSalle	6th Floor	Chicago	IL	60604	(312) 294-2222	www.tdsecurities.com
Terra Nova Financial LLC	100 South Wacker Drive	Suite 1550	Chicago	IL	60606	(800) 228-4216	www.terranovaonline.com
The Benchmark Company LLC	40 Fulton Street	19th Floor	New York	NY	10038	(212) 312-6700	www.benchmarkcap.com
The Pennsylvania Group, Inc.	515 Shoemaker Road		King of Prussia	PA	19406	(212) 752-2115	
Themis Trading LLC	10 Town Square	Suite 100	Chatham	NJ	07928	(973) 665-9600	www.themistrading.com
ThinkEquity LLC	600 Montgomery Street	3rd Floor	San Francisco	CA	94111	(212) 861-2954	www.thinkequity.com
Thinkorswim, Inc.	600 West Chicago Avenue	Suite 100	Chicago	IL	60610	(773) 435-3210	www.thinkorswim.com
Thomas Group Capital	3414 Peachtree Road NE	Suite 656	Atlanta	GA	30326	(678) 539-1700	www.thomassec.com
Thomas J. McEntee	138 Ridge Crescent		Manhasset	NY	11030	(516) 857-4150	
Thomas Weisel Partners Group LLC	One Montgomery Street	Suite 3700	San Francisco	CA	94104	(415) 364-2827	www.tweisel.com
Thompson Davis & Co., Inc.	919 East Main Street	16th Floor	Richmond	VA	23219	(804) 643-1295	www.thompsondavis.com
Thor Capital LLC	551 Fifth Avenue	Suite 601	New York	NY	10017	(212) 973-0063	www.thordirect.com
Ticonderoga Securities LLC	520 Madison Avenue	4th Floor	New York	NY	10022	(212) 944-5700	www.ticonderogasecurities.com
Timber Hill LLC	One Pickwick Plaza		Greenwich	CT	06830	(203) 618-5800	www.interactivebrokers.com
TJM Investments LLC	303 West Madison Street		Chicago	IL	60606	(312) 432-5100	www.tjmbrokerage.com
TMY Trading LLC	440 S. LaSalle Street	Suite 3100	Chicago	IL	60605	(312) 260-5000	
Torc Investments & Research, LLC	One Liberty Plaza	23rd Floor	New York	NY	10006	(212) 897-7317	www.torcinvestments.com
Toro Trading LLC	120 Broadway	20th Floor	New York	NY	10271	(212) 433-7354	

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Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
Track Data Securities Corp.	95 Rockwell Place		Brooklyn	NY	11217	(718) 923-3187	www.trackdata.com
Trade Manage Capital Inc.	299 Market Street		Saddle Brook	NJ	07663	(201) 587-2424	www.trademanage.com
Tradebot Systems, Inc.	1251 NW Briarcliff Parkway	Suite 700	Kansas City	MO	64116	(816) 285-6400	www.tradebotsystems.com
Tradedesk Financial Corp.	5959 West Century Blvd.	Suite 566	Los Angeles	CA	90045	(310) 259-7001	www.tradedeskfinancial.com
Tradelink LLC	71 S. Wacker Drive	Suite 1900	Chicago	IL	60606	(312) 264-2000	www.tradelinkllc.com
Tradelink Securities LLC	71 S. Wacker Dr.	Suite 1900	Chicago	IL	60606	(312) 264-2120	www.tradelinkllc.com
TradeStation Securities, Inc.	8050 S.W. 10th Street	Suite 2000	Plantation	FL	33324	(954) 652-7900	www.tradestation.com
Trading Machines LLC	1 Atlantic Street	Suite 301	Stamford	CT	06901	(203) 559-9128	
Tradition Asiel Securities Inc.	75 Park Place	4th Floor	New York	NY	10007	(212) 791-4500	www.tradition-asiel.com
Transcend Capital LP	7001 Preston Road	Suite 405	Dallas	TX	75205	(214) 443-9590	www.transcendcapital.com
Triad Securities Corp	111 Broadway	11th Floor	New York	NY	10006	(212) 349-8060	www.triadsecurities.com
Tudor, Pickering, Holt & Co. Securities, Inc.	1111 Bagby Street	Suite 5000	Houston	TX	77002	(713) 333-2960	www.tudorpickering.com
Tullett Liberty Securities LLC	80 Pine Street		New York	NY	10005	(212) 208-2386	
Turning Point Securities, LLC	440 South LaSalle Street	Suite 1118	Chicago	IL	60605	(312) 662-1263	www.turningpointsecurities.com
Two Sigma Securities, LLC	375 West Broadway	Suite 300	New York	NY	10012	(212) 625-5700	
TWS Financial, LLC	1101 Pennsylvania Avenue	Suite #600	Washington	DC	20004	(202) 449-7260	www.tradewallstreet.com
UBS Financial Services Inc.	1200 Harbor Boulevard		Weehawken	NJ	07086	(212) 713-2000	www.ubs.com
UBS Securities LLC	677 Washington Blvd.	6th Floor	Stamford	CT	06901	(203) 719-3000	www.ibb.ubs.com
UMTB Securities, Inc.	630 Fifth Avenue	Suite 2220	New York	NY	10111	(212) 554-2781	
UNX, Inc.	175 East Olive Avenue	2nd Floor	Burbank	CA	91502	(818) 333-3300	www.unx.com
Vandham Securities Corp.	50 Tice Boulevard	1st Floor	Woodcliff Lake	NJ	07677	(212) 223-7300	www.vandham.com
Variant Trading Institutional Group, Inc.	3998 FAU Blvd.	Suite 120	Boca Raton	FL	33431	(561) 862-5525	www.variantresearch.com
Veritas Securities Corp.	c/o Gettenberg Consulting	40 Wall Street - 34th Floor	New York	NY	10005	(212) 668-8700	www.veritassecurities.com
Viewpoint Securities, LLC	888 Prospect Avenue		La Jolla	CA	92037	(858) 480-2800	
ViewTrade Securities, Inc.	7280 W. Palmetto Park Road	Suite 105	Boca Raton	FL	33433	(561) 620-0306	www.viewtrade.com
Vionum, LLC	12021 South Rene Street		Olathe	KS	66062	(888) 250-2249	
Virtu Financial BD LLC	645 Madison Avenue	16th Floor	New York	NY	10022	(212) 418-0116	www.vfinllc.com
Vision Brokerage Services LLC	1 Whitehall Street	15th Floor	New York	NY	10004	1-800-775-4341	www.visionbrokerageservices.com
VTrader Pro LLC	220 Bush Street	Suite 600	San Francisco	CA	94104	(415) 293-3897	www.vtradergroup.com
W. Quillen Securities	145 East 57th Street	10th Floor	New York	NY	10022	(212) 223-0188	www.wquillen.com
W.R. Hambrecht + Co., LLC	420 Lexington Avenue	Suite 1825	New York	NY	10170	(415) 551-8600	www.wrhambrecht.com
Wall Street Access	17 Battery Place		New York	NY	10004	(800) 774-0163	www.wsaccess.com
Wallach Beth Capital LLC	100 Wall Street	Suite 6600	New York	NY	10005	(646) 237-8585	
Walleye Trading, LLC	14601 27th Avenue	Suite 102	Plymouth	MN	55447	(952) 345-6611	www.walleyesoftware.com
Walter J. Dowd Inc.	30 Broad Street	22nd Floor	New York	NY	10004	(212) 945-1404	www.wjdowd.com
Wang Investment Associates, Inc.	50 Broad Street	Suite 435	New York	NY	10004	(212) 425-9264	www.wangvest.com
Wedbush Securities, Inc.	1000 Wilshire Blvd.	PO Box 30014	Los Angeles	CA	90030	(213) 688-8000	www.wedbush.com
Wedge Securities LLC	9800 Mt. Pyramid Court	Suite 304	Englewood	CO	80112	(303) 476-5930	www.wedgepartners.com
Weeden & Company, L.P.	145 Mason Street		Greenwich	CT	06830	(203) 861-7670	www.weedenco.com
Wellington Shields & Co., LLC	140 Broadway	Suite 4400	New York	NY	10005	(212) 320-3000	
Westor Capital Group Inc.	258 Genesee St.	Sute 601	Utica	NY	13502	(212) 631-4250	www.westorcapital.com
Westrock Advisors Inc.	230 Park Avenue	Suite 934	New York	NY	10169	(212) 922-1995	www.westrockadvisors.com
WG Trading Company LP	One Lafayette Place	2nd Floor	Greenwich	CT	06830	(203) 863-8400	
White Cap Trading LLC	55 Fifth Avenue	18th Floor	New York	NY	10003	(646) 786-2005	www.wctrade.com
White Pacific Securities Inc.	231 Sansome Street	4th Floor	San Francisco	CA	94104	(888) 882-8856	
William Blair & Company LLC	222 West Adams Street		Chicago	IL	60606	(312) 236-1600	www.williamblair.com
William O'Neil & Co. Incorporated	12655 Beatrice Street		Los Angeles	CA	90066	(310) 448-6800	www.williamoneil.com
Williams Trading, LLC	860 Canal Street	3rd Floor	Stamford	CT	06902	(203) 353-7600	www.wtco.com
Wilson-Davis & Company Inc.	8555 Southwest Apple Way	Suite 110	Portland	OR	97225	(801) 532-1313	www.wdco.com
Witenberg Investment Companies, Inc.	9440 Santa Monica	Suite 600	Beverly Hills	CA	90210	(310) 724-5555	www.witenberg.com
WJB Capital Group, Inc.	60 Broad Street	34th Floor	New York	NY	10005	(212) 785-0008	www.wjbonfanti.com

NYSE Arca Equity Member Organizations

Account	Address1	Address2	City	State	Postalcode	Mainphone	Webaddress
WM Smith Securities Inc.	1700 Lincoln Street	Suite 2545	Denver	CO	80203	(303) 831-9696	www.wmsmith.com
Wolf A. Popper, Inc.	99 Wall Street	6th Floor	New York	NY	10005	(212) 532-0100	www.wolfpopperfinancial.com
Wolverine Execution Services LLC	175 W. Jackson	Suite 200	Chicago	IL	60604	(312) 884-3689	www.tradewex.com
Wolverine Trading, LLC	175 W. Jackson Boulevard	Suite 200	Chicago	IL	60604	(312) 884-3788	www.wolve.com
World Trade Financial Corp.	2010 Hancock Street	Second Floor	San Diego	CA	92110	(619) 325-2620	www.worldtradefinancial.com
XR Securities LLC	550 West Jackson Blvd.	Suite 1000	Chicago	IL	60661	(312) 244-4500	
Zacks & Company	100 N. Riverside Plaza	Suite 2200	Chicago	IL	60606	(312) 630-9880	www.zacks.com

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