

MIAX Sapphire Options Exchange Regulatory Circular 2024-56

DATE: October 4, 2024

TO: MIAX Sapphire Options Members

FROM: MIAX Regulatory Department

RE: Market for Underlying Security Used for Openings on MIAX Sapphire Options Effective Monday, October 7, 2024

The following symbols will start trading on MIAX Sapphire Options (the “Exchange”) beginning Monday, October 7, 2024. As set forth in MIAX Sapphire Options Rule 503(a)(3), the Exchange shall use the market listed below as the “market for the underlying security” for the purpose of Openings on the Exchange.

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
ACA	ARCOSA INC	NYSE
ACLX	ARCELLX, INC.	NASDAQ
ACRE	ARES COMMERCIAL REAL ESTATE CORPORATION	NYSE
ACRS	ACLARIS THERAPEUTICS, INC.	NASDAQ
ACVA	ACV AUCTIONS INC	NASDAQ
ADC	AGREE REALTY CORPORATION	NYSE
ADCT	ADC THERAPEUTICS SA	NYSE
ADEA	ADEIA INC.	NASDAQ
ADNT	ADIENT PLC	NYSE
ADPT	ADAPTIVE BIOTECHNOLOGIES CORP	NASDAQ
AEIS	ADVANCED ENERGY INDUSTRIES, INC.	NASDAQ
AFCG	AFC GAMMA INC	NASDAQ
AGM	FEDERAL AGRICULTURAL MORTGAGE CORP. (CL C)	NYSE
AGRO	ADECOAGRO S.A.	NYSE
AGS	PLAYAGS INC	NYSE
AGX	ARGAN INC	NYSE
AGYS	AGILYSYS INC	NASDAQ
AIOT	POWERFLEET, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
AIP	ARTERIS, INC.	NASDAQ
AIR	AAR CORP.	NYSE
AIRG	AIRGAIN INC	NASDAQ
AIV	APARTMENT INVESTMENT AND MANAGEMENT COMPANY	NYSE
AIZ	ASSURANT INC.	NYSE
ALDX	ALDEYRA THERAPEUTICS, INC.	NASDAQ
ALEC	ALECTOR INC.	NASDAQ
ALLE	ALLEGION PLC	NYSE
ALLT	ALLOT COMMUNICATIONS LTD	NASDAQ
ALRM	ALARM.COM HOLDINGS, INC.	NASDAQ
ALSN	ALLISON TRANSMISSION HOLDINGS, INC.	NYSE
ALTG	ALTA EQUIPMENT GROUP INC	NYSE
ALUR	ALLURION TECHNOLOGIES INC	NYSE
ALV	AUTOLIV, INC	NYSE
ALVR	ALLOVIR INC	NASDAQ
AMPH	AMPHASTAR PHARMACEUTICALS, INC.	NASDAQ
AMPL	AMPLITUDE INC	NASDAQ
AMRC	AMERESCO, INC.	NYSE
AMX	AMERICA MOVIL S.A.B. DE C.V.	NYSE
ANGI	ANGIE'S LIST, INC.	NASDAQ
ANGO	ANGIODYNAMCIS, INC.	NASDAQ
ANIX	ANIXA BIOSCIENCES, INC.	NASDAQ
APG	API GROUP CORPORATION	NYSE
APPF	APPFOLIO INC	NASDAQ
APT	ALPHA PRO TECH LTD.	NYSE AMERICAN
ARAY	ACCURAY INCORPORATED	NASDAQ
AREC	AMERICAN RESOURCES CORP	NASDAQ
ARI	APOLLO COMMERCIAL REAL ESTATE FINANCE, INC.	NYSE
ARKO	ARKO CORP	NASDAQ
ARKQ	ARK AUTONOMOUS TECH & ROBOTICS	CBOE BZX
ARKW	ARK NEXT GENERATION INTERNET ETF	NYSE ARCA
ARQ	ARQ, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
ASH	ASHLAND INC	NYSE
ASIX	ADVANSIX INC.	NYSE
ATEN	A10 NETWORKS, INC.	NYSE
ATHA	ATHIRA PHARMA, INC.	NASDAQ
ATO	ATMOS ENERGY CORP	NYSE
ATYR	ATYR PHARMA, INC	NASDAQ
AUTL	AUTOLUS THERAPEUTICS PLC	NASDAQ
AVB	AVALONBAY COMMUNITIES INC	NYSE
AVD	AMERICAN VANGUARD CORP.	NYSE
AVIR	ATE PHARMACEUTICAL INC.	NASDAQ
AVNW	AVIAT NETWORKS INC	NASDAQ
AVO	MISSION PRODUCE INC	NASDAQ
AVT	AVNET INC	NASDAQ
AWI	ARMSTRONG WORLD INDUSTRIES, INC.	NYSE
AXNX	AXONICS MODULATION TECHNOLOGIES INC	NASDAQ
AXS	AXIS CAPITAL HOLDINGS LIMITED	NYSE
AYI	ACUITY BRANDS, INC.	NYSE
AZPN	ASPEN TECHNOLOGY, INC.	NASDAQ
BBDC	BARINGS BDC, INC.	NYSE
BBVA	BANCO BILBAO VIZCAYA	NYSE
BCC	BOISE CASCADE COMPANY	NYSE
BCOV	BRIGHTCOVE INC	NASDAQ
BCPC	BALCHEM CORPORATION	NASDAQ
BDN	BRANDYWINE REALTY TRUST	NYSE
BGNE	BEIGENE, LTD.	NASDAQ
BIL	SPDR BLOOMBERG BARCLAYS 1-3 MONTH T-BILL ETF	NYSE ARCA
BIOR	BIORA THERAPEUTICS, INC.	NASDAQ
BIPC	BROOKFIELD INFRASTRUCTURE CORPORATION	NYSE
BIZD	VANECK BDC INCOME ETF	NYSE ARCA
BKD	BROOKDALE SENIOR LIVING INC	NYSE
BKSY	BLACKSKY TECHNOLOGY INC	NYSE
BKU	BANKUNITED, INC.	NYSE
BLCO	BAUSCH & LOMB CORP	NYSE

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
BLD	TOPBUILD CORP.	NYSE
BLRX	BIOLINE RX LTD	NASDAQ
BNL	BROADSTONE NET LEASE, INC.	NYSE
BOC	BOSTON OMAHA CORP	NYSE
BOH	BANK OF HAWAII CORP.	NYSE
BOOM	DMC GLOBAL INC.	NASDAQ
BPT	BP PRUDHOE BAY ROYALTY TRUST	NYSE
BR	BROADRIDGE FINANCIAL SOLUTIONS, INC.	NYSE
BRZU	DIREXION DAILY BRAZIL BULL 3X ETF	NYSE ARCA
BTCM	BIT MINING LIMITED	NYSE
BTF	VALKYRIE BITCOIN STRATEGY ETF	NASDAQ
BUG	GLOBAL X CYBER SECURITY	NASDAQ
BVN	COMPANIA DE MINAS BUENAVENTURA S.A.-ADR	NYSE
BVS	BIOVENTUS INC.	NASDAQ
BWEN	BROADWIND, INC.	NASDAQ
BWIN	BALDWIN INSURANCE GROUP, INC.	NASDAQ
BXC	BLUELIX HOLDINGS INC	NYSE
CACC	CREDIT ACCEPTANCE CORP.	NASDAQ
CANE	TEUCRIUM SUGAR	NYSE ARCA
CBAT	CBAK ENERGY TECHNOLOGY, INC.	NASDAQ
CCCS	CCC INTELLIGENT SOLUTIONS HOLDINGS INC.	NASDAQ
CCS	CENTURY COMMUNITIES, INC.	NYSE
CDNA	CAREDX, INC	NASDAQ
CDXC	CHROMADEX CORPORATION	NASDAQ
CDXS	CODEXIS INC.	NASDAQ
CDZI	CADIZ INC.	NASDAQ
CERS	CERUS CORPORATION	NASDAQ
CGAU	CENTERRA GOLD INC.	NYSE
CHAU	DIREXION DLY CSI 300 CHN A SHR BR 2X ETF	NYSE ARCA
CHEF	CHEFS' WAREHOUSE INC/THE	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
CHH	CHOICE HOTELS INTERNATIONAL INC.	NYSE
CHMI	CHERRY HILL MORTGAGE INVESTMENT CORP.	NYSE
CHUY	CHUY'S HOLDINGS, INC.	NASDAQ
CIO	CITY OFFICE REIT, INC.	NYSE
CLAR	CLARUS CORPORATION	NASDAQ
CLB	CORE LABORATORIES N.V.	NYSE
CLDX	CELLDEX THERAPEUTICS, INC.	NASDAQ
CLOU	GLOBAL X CLOUD COMPUTING ETF GLOBAL X CLOUD COMPUTING ETF	NASDAQ
CLPT	CLEARPOINT NEURO INC	NASDAQ
CLVT	CLARIVATE PLC	NYSE
CMBM	CAMBIUM NETWORKS CORPORATION	NASDAQ
CMCM	CHEETAH MOBILE INC.	NYSE
CMRX	CHIMERIX, INC.	NASDAQ
CNA	CNA FINANCIAL CORPORATION	NYSE
CNNE	CANNAE HOLDINGS, INC.	NYSE
COOK	TRAEGER, INC.	NYSE
CPS	COOPER-STANDARD HOLDINGS INC.	NYSE
CPT	CAMDEN PROPERTY TRUST	NYSE
CQP	CHENIERE ENERGY PTNRS L.P.	NYSE
CRESY	CRESUD SOCIEDAD ANONIMA COMERCIAL, INMOBILIARIA, FINANCIERA Y AGROPECUARIA	NASDAQ
CRVS	CORVUS PHARMACEUTICALS, INC.	NASDAQ
CTLP	CANTALOUPE, INC.	NASDAQ
CUBE	CUBESMART	NYSE
CUE	CUE BIOPHARMA INC	NASDAQ
CUK	CARNIVAL CORPORATION & PLC	NYSE
CURE	DIREXION DAILY HEALTHCARE BULL 3X ETF	NYSE ARCA
CVLG	COVENANT LOGISTICS GROUP, INC.	NYSE
CVLT	COMMVault SYSTEMS INC	NASDAQ
CVRX	CVRX, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
CWAN	CLEARWATER ANALYTICS HOLDINGS	NYSE
CWCO	CONSOLIDATED WATER CO. LTD	NASDAQ
CWEN	CLEARWAY ENERGY, INC.	NYSE
CWT	CALIFORNIA WATER SERVICE GROUP	NYSE
CXDO	CREXENDO, INC.	NASDAQ
DAN	DANA HOLDING CORPORATION	NYSE
DBB	POWERSHARES DB BASE METALS ETF	NYSE ARCA
DCGO	DOCGO INC	NASDAQ
DCI	DONALDSON COMPANY, INC.	NYSE
DDM	PROSHARES ULTRA DOW30	NYSE ARCA
DFH	DREAM FINDERS HOMES, INC.	NYSE
DHC	DIVERSIFIED HEALTHCARE TRUST (NASDAQ
DIG	PROSHARES ULTRA OIL & GAS	NYSE ARCA
DIOD	DIODES INCORPORATED	NASDAQ
DKL	DELEK LOGISTICS PARTNERS LP	NYSE
DLTH	DULUTH HOLDINGS INC.	NASDAQ
DLX	DELUXE CORPORATION	NYSE
DMLP	DORCHESTER MINERALS LP	NASDAQ
DNLI	DENALI THERAPEUTICS INC	NASDAQ
DOG	PROSHARES SHORT DOW30	NYSE ARCA
DOX	AMDOCS LTD	NASDAQ
DRIO	DARIOHEALTH CORP	NASDAQ
DRRX	DURECT CORPORATION	NASDAQ
DSP	VARIANT TECHNOLOGY, INC.	NASDAQ
DTC	SOLO BRANDS, INC.	NYSE
DTM	DT MIDSTREAM, INC.	NYSE
DXLG	DESTINATION XL GROUP, INC.	NASDAQ
DYAI	DYADIC INTERNATIONAL, INC.	NASDAQ
EBC	EASTERN BANKSHARES, INC.	NASDAQ
EDAP	EDAP TMS S.A.	NASDAQ
EDC	DIREXION DAILY EMERGING MARKETS BULL 3X SHARES (20	NYSE ARCA
EEFT	EURONET WORLDWIDE, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
EGHT	8X8 INC	NASDAQ
EHC	ENCOMPASS HEALTH CORPORATION	NYSE
EHTH	EHEALTH, INC.	NASDAQ
ELS	EQUITY LIFESTYLE PROPERTIES, INC.	NYSE
EMBC	EMBECTA CORP.	NASDAQ
ENOV	ENOVIS CORPORATION	NYSE
EPAC	ACTUANT CORPORATION	NYSE
EPM	EVOLUTION PETROLEUM CORPORATION	NYSE AMERICAN
EPRT	ESSENTIAL PROPERTIES REALTY TRUST INC	NYSE
ERY	DIREXIONSHARES DAILY ENERGY BEAR 3X SHARES	NYSE ARCA
ESS	ESSEX PROPERTY TRUST INC.	NYSE
ETWO	E2OPEN PARENT HOLDINGS, INC.	NYSE
EUO	PROSHARES ULTRASHORT EURO	NYSE ARCA
EVEX	EVE HOLDING, INC	NYSE
EVR	EVERCORE PARTNERS INC.	NYSE
EWA	ISHARES MSCI AUSTRALIA INDEX	NYSE ARCA
EWBC	EAST WEST BANCORP INC	NASDAQ
EW CZ	EUROPEAN WAX CENTER, INC.	NASDAQ
EW TX	EDGEWISE THERAPEUTICS, INC.	NASDAQ
EXLS	EXLSERVICE HOLDINGS, INC.	NASDAQ
EYEN	EYENOVIA, INC.	NASDAQ
EZPW	EZCORP, INC	NASDAQ
FATE	FATE THERAPEUTICS, INC.	NASDAQ
FBIN	FORTUNE BRANDS INNOVATIONS, INC.	NYSE
FCFS	FIRSTCASH HOLDINGS, INC.	NASDAQ
FCG	FIRST TRUST ISE-REVERE NATURAL GAS ETF	NYSE ARCA
FDP	FRESH DEL MONTE PRODUCE INC.	NYSE
FENY	FIDELITY MSCI ENERGY INDEX ETF	NYSE ARCA
FHI	FEDERATED HERMES, INC.	NYSE
FINV	FINVOLUTION GROUP	NYSE
FLGT	FULGENT GENETICS, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
FLO	FLOWERS FOODS, INC.	NYSE
FLWS	1-800-FLOWERS.COM INC.	NASDAQ
FORM	FORMFACTOR INC.	NASDAQ
FRGE	FORGE GLOBAL HOLDINGS, INC.	NYSE
FRT	FEDERAL REALTY INVESTMENT TRUST	NYSE
FSP	FRANKLIN STREET PROPERTIES CORPORATION	NYSE AMERICAN
FTCI	FTC SOLAR, INC.	NASDAQ
FULT	FULTON FINANCIAL CORPORATION	NASDAQ
FWRG	FIRST WATCH RESTAURANT GROUP	NASDAQ
FXB	CURRENCYSHARES BRITISH POUND STERLING TRUST	NYSE ARCA
FXF	CURRENCYSHARES SWISS FRANC ETF	NYSE ARCA
GAMB	GAMBLING.COM GROUP LTD	NASDAQ
GATO	GATOS SILVER, INC.	NYSE
GBDC	GOLUB CAPITAL BDC, INC.	NASDAQ
GCO	GENESCO INC.	NYSE
GDOT	GREEN DOT CORPORATION	NYSE
GEF	GREIF, INC.	NYSE
GFF	GRIFFON CORPORATION	NYSE
GILT	GILAT SATELLITE NETWORKS LTD.	NASDAQ
GLAD	GLADSTONE CAPITAL CORPORATION	NASDAQ
GLBS	GLOBUS MARITIME LIMITED	NASDAQ
GOOD	GLADSTONE COMMERCIAL CORPORATION	NASDAQ
GPRK	GEOARK LTD	NYSE
GSHD	GOOSEHEAD INSURANCE, INC	NASDAQ
GSIT	GSI TECHNOLOGY	NASDAQ
GTX	GARRETT MOTION INC.	NASDAQ
GVA	GRANITE CONSTRUCTION INCORPORATED	NYSE
HAIN	THE HAIN CELESTIAL GROUP, INC.	NASDAQ
HDSN	HUDSON TECHNOLOGIES, INC.	NASDAQ
HEES	H&E EQUIPMENT SERVICES, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
HIPO	HIPPO HOLDINGS INC.	NYSE
HLN	HALEON PLC	NYSE
HOMB	HOME BANCSHARES, INC.	NYSE
HPK	HIGHPEAK ENERGY INC	NASDAQ
HRI	HERC HOLDINGS INC.	NYSE
HRMY	HARMONY BIOSCIENCES HOLDINGS IN	NASDAQ
HRZN	HORIZON TECHNOLOGY FINANCE CORP	NASDAQ
HTOO	FUSION FUEL GREEN PLC	NASDAQ
IART	INTEGRA LIFESCIENCES HOLDINGS CORPORATION	NASDAQ
IDA	IDACORP, INC.	NYSE
IDN	INTELLICHECK, INC.	NASDAQ
IDR	IDAHO STRATEGIC RESOURCES INC	NYSE AMERICAN
IDT	IDT CORPORATION	NYSE
IDYA	IDEAYA BIOSCIENCES, INC.	NASDAQ
IE	IVANHOE ELECTRIC INC.	NYSE AMERICAN
IEMG	ISHARES CORE MSCI EMERGING MARKETS	NYSE ARCA
IEO	ISHARES U.S. OIL&GAS EXPLOR&PRODTN	CBOE BZX
IESC	IES HOLDINGS, INC.	NASDAQ
IFRX	INFLARX N.V.	NASDAQ
IGC	IGC PHARMA, INC.	NYSE AMERICAN
IGM	ISHARES EXPANDED TECH SECTOR ETF	NYSE ARCA
IGMS	IGM BIOSCIENCES, INC	NASDAQ
ILPT	INDUSTRIAL LOGISTICS PROPERTIES TRUST	NASDAQ
IMO	IMPERIAL OIL LTD.	NYSE AMERICAN
IMUX	IMMUNIC, INC	NASDAQ
INDL	DIREXION DAILY INDIA BULL 3X ETF	NYSE ARCA
INTA	INTAPP, INC.	NASDAQ
INTT	INTEST CORPORATION	NYSE AMERICAN
IRON	DISC MEDICINE, INC.	NASDAQ
IRT	INDEPENDENCE REALTY TRUST, INC.	NYSE

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
IRWD	IRONWOOD PHARMACEUTICALS INC	NASDAQ
ISPR	ISPIRE TECHNOLOGY, INC.	NASDAQ
ITOT	ISHARES CORE S&P TOTAL U.S. STOCK MARKET ETF	NYSE ARCA
ITRI	ITRON, INC.	NASDAQ
IVW	ISHARES S&P 500 GROWTH ETF	NYSE ARCA
IWB	ISHARES RUSSELL 1000	NYSE ARCA
IWR	ISHARES RUSSELL MIDCAP INDEX FUND	NYSE ARCA
JLL	JONES LANG LASALLE INCORPORATED	NYSE
JRVR	JAMES RIVER GROUP HOLDINGS LTD	NASDAQ
JYNT	JOINT CORP	NASDAQ
KBWB	POWERSHARES KBW BANK ETF	NASDAQ
KEX	KIRBY CORPORATION	NYSE
KGS	KODIAK GAS SERVICES INC	NYSE
KMT	KENNAMETAL INC.	NYSE
KN	KNOWLES CORPORATION	NYSE
KNF	KNIFE RIVER CORP	NYSE
KNOP	KNOT OFFSHORE PARTNERS LP	NYSE
KNSA	KINIKSA PHARMACEUTICALS, LTD	NASDAQ
KOF	COCA-COLA FEMSA SAB DE CV	NYSE
KRC	KILROY REALTY CORP.	NYSE
KREF	KKR REAL ESTATE FINANCE TRUST INC.	NYSE
KRON	KRONOS BIO INC	NASDAQ
KURA	KURA ONCOLOGY, INC	NASDAQ
KXIN	KAIXIN AUTO HOLDINGS	NASDAQ
KYN	KAYNE ANDERSON MLP INVESTMENT COMPANY	NYSE
LAND	GLADSTONE LAND CORPORATION	NASDAQ
LECO	LINCOLN ELECTRIC HOLDINGS, INC.	NASDAQ
LFCR	LIFECORE BIOMEDICAL, INC	NASDAQ
LGFA	LIONS GATE ENTERTAINMENT CORP.	NYSE
LGFB	LIONS GATE ENTERTAINMENT CORPORATION	NYSE

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
LII	LENNOX INTERNATIONAL, INC.	NYSE
LINC	LINCOLN EDUCATIONAL SERVICES CORPORATION	NASDAQ
LIND	LINDBLAD EXPEDITIONS HOLDINGS, INC	NASDAQ
LMB	LIMBACH HOLDINGS, INC.	NASDAQ
LNN	LINDSAY CORPORATION	NYSE
LNT	ALLIANT ENERGY CORPORATION	NASDAQ
LODE	COMSTOCK MINING, INC.	NYSE AMERICAN
LOMA	LOMA NEGRA CIA INDUSTRIAL ARGENTINA SA	NYSE
LPRO	OPEN LENDING CORPORATION	NASDAQ
LSEA	LANDSEA HOMES CORPORATION	NASDAQ
LTH	LIFE TIME GROUP HOLDINGS, INC.	NYSE
LTPZ	PIMCO 15+ YEAR U.S. TIPS INDEX EXCHANGE-TRADED FND	NYSE ARCA
LTRX	LANTRONIX, INC.	NASDAQ
LX	LEXINFINTech HOLDINGS LTD.	NASDAQ
LXU	LSB INDUSTRIES INC.	NYSE
LYG	LLOYDS BANKING GROUP PLC ADR	NYSE
MAN	MANPOWERGROUP INC.	NYSE
MC	MOELIS & COMPANY	NYSE
MCS	MARCUS CORPORATION	NYSE
MD	MEDNAX INC	NYSE
MDU	MDU RESOURCES GROUP INC.	NYSE
MEOH	METHANEX CORP.	NASDAQ
MEXX	DIREXION DAILY MSCI MEXICO BULL 3X SHARES	NYSE ARCA
MGIC	MAGIC SOFTWARE ENTERPRISES LTD	NASDAQ
MHO	M/I HOMES INC	NYSE
MIRM	MIRUM PHARMACEUTICALS, INC.	NASDAQ
MKSI	MKS INSTRUMENTS, INC.	NASDAQ
MLKN	MILLERKNOLL, INC.	NASDAQ
MLTX	MOONLAKE IMMUNOTHERAPEUTICS	NASDAQ
MNY	MONEYHERO LIMITED	NASDAQ
MODV	MODIVCARE INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
MOGO	MOGO INC	NASDAQ
MPLN	MULTIPLAN CORPORATION	NYSE
MRAM	EVERSPIN TECHNOLOGIES, INC.	NASDAQ
MRCY	MERCURY SYSTEMS, INC.	NASDAQ
MRTN	MARTEN TRANSPORT, LTD.	NASDAQ
MRVI	MARAVAI LIFESCIENCES HOLDINGS, INC.	NASDAQ
MSGG	MADISON SQUARE GARDEN SPORTS CORPORATION	NYSE
MTG	MGIC INVESTMENT CORPORATION	NYSE
MTH	MERITAGE HOMES CORPORATION	NYSE
MTLS	MATERIALISE NV	NASDAQ
MTRX	MATRIX SERVICE COMPANY	NASDAQ
MUFG	MITSUBISHI UFJ FINANCIAL GROUP, INC.	NYSE
MX	MAGNACHIP SEMICONDUCTOR CORP.	NYSE
NAPA	DUCKHORN PORTFOLIO, INC.	NYSE
NATL	NCR ATLEOS, LLC	NYSE
NDSN	NORDSON CORPORATION	NASDAQ
NEOG	NEOGEN CORP	NASDAQ
NEWP	NEW PACIFIC METALS CORP	NYSE AMERICAN
NEWT	NEWTEK BUSINESS SERVICES CORP	NASDAQ
NGG	NATIONAL GRID PLC	NYSE
NI	NISOURCE, INC	NYSE
NKTX	NKARTA INC	NASDAQ
NMRK	NEWMARK GROUP INC	NASDAQ
NOTE	FISCALNOTE HOLDINGS, INC.	NYSE
NR	NEWPARK RESOURCES, INC.	NYSE
NRDS	NERDWALLET, INC	NASDAQ
NRGV	ENERGY VAULT HOLDINGS, INC	NYSE
NRIX	NURIX THERAPEUTICS, INC.	NASDAQ
NRP	NATURAL RESOURCE PARTNERS L.P.	NYSE
NRXP	NRX PHARMACEUTICALS, INC	NASDAQ
NSA	NATIONAL STORAGE AFFILIATES	NYSE

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
NSP	INSPERITY, INC.	NYSE
NUS	NU SKIN ENTERPRISES INC.	NYSE
NUVB	NUVATION BIO INC COM CL A	NYSE
NUVL	NUVALENT, INC.	NASDAQ
NVNO	ENVVENO MEDICAL CORPORATION	NASDAQ
NVRI	ENVIRI CORPORATION	NYSE
NWBI	NORTHWEST BANCSHARES INC	NASDAQ
NWSA	NEWS CORPORATION	NASDAQ
NYMT	NEW YORK MORTGAGE TRUST, INC.	NASDAQ
OCEA	OCEAN BIOMEDICAL, INC.	NASDAQ
OCSL	OAKTREE SPECIALTY LENDING CORPORATION	NASDAQ
ODP	THE ODP CORPORATION	NASDAQ
ODV	OSISKO DEVELOPMENT CORP	NYSE
OEF	ISHARES S&P 100 ETF	NYSE ARCA
OIS	OIL STATES INTERNATIONAL, INC.	NYSE
OLO	OLO, INC.	NYSE
OMCL	OMNICELL, INC	NASDAQ
OMGA	OMEGA THERAPEUTICS, INC.	NASDAQ
ONDS	ONDAS HOLDINGS, INC.	NASDAQ
ONTO	ONTO INNOVATION INC.	NYSE
OPRT	OPORTUN FINANCIAL CORP.	NASDAQ
OPY	OPPENHEIMER HOLDINGS INC.	NYSE
ORAN	ORANGE SA	NYSE
ORN	ORION MARINE GROUP, INC.	NYSE
OSK	OSHKOSH CORPORATION	NYSE
OSS	ONE STOP SYSTEMS, INC.	NASDAQ
OVID	OVID THERAPEUTICS INC.	NASDAQ
PAR	PAR TECHNOLOGY CORPORATION	NYSE
PARAA	PARAMOUNT GLOBAL CLASS A	NASDAQ
PARR	PAR PACIFIC HOLDINGS, INC.	NYSE
PAVE	GLOBAL X U.S. INFRASTRUCTURE DEVELOPMENT ETF	CBOE BZX
PAX	PATRIA INVESTMENT LTD	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
PBA	PEMBINA PIPELINE CORPORATION	NYSE
PBPB	POTBELLY CORPORATION	NASDAQ
PBT	PERMIAN BASIN ROYALTY TRUST	NYSE
PDBC	INVESCO OPTIMUM YIELD DIVER STARTEGY NO K-1 ETF	NASDAQ
PEB	PEBBLEBROOK HOTEL TRUST	NYSE
PESI	PERMA-FIX ENVIRONMENTAL SERVICES, INC.	NASDAQ
PFLT	PENNANTPARK FLOATING RATE CAPITAL LTD	NYSE
PLTK	PLAYTIKA HOLDING CORP.	NASDAQ
PLX	PROTALIX BIOTHERAPEUTICS INC.	NYSE AMERICAN
PNFP	PINNACLE FINANCIAL PARTNERS, INC.	NASDAQ
PNNT	PENNANTPARK INVESTMENT CORP	NYSE
PPH	MARKET VECTORS PHARMACEUTICAL ETF	NASDAQ
PPSI	PIONEER POWER SOLUTIONS, INC.	NASDAQ
PRA	PROASSURANCE CORPORATION	NYSE
PRAA	PRA GROUP, INC.	NASDAQ
PRM	PERIMETER SOLUTIONS SA	NYSE
PRO	PROS HOLDINGS INC	NYSE
PRPL	PURPLE INNOVATION, INC.	NASDAQ
PRQR	PROQR THERAPEUTICS N.V.	NASDAQ
PRTA	PROTHENA CORPORATION PLC	NASDAQ
PSMT	PRICESMART, INC.	NASDAQ
PSNL	PERSONALIS, INC.	NASDAQ
PSTX	POSEIDA THERAPEUTICS, INC.	NASDAQ
PTGX	PROTAGONIST THERAPEUTICS, INC.	NASDAQ
PTN	PALATIN TECHNOLOGIES, INC.	NYSE AMERICAN
PUMP	PROPETRO HOLDING CORP.	NYSE
PXLW	PIXELWORKS, INC.	NASDAQ
PYXS	PYXIS ONCOLOGY, INC.	NASDAQ
QFIN	360 DIGITECH, INC.	NASDAQ
QIPT	QUIPT HOME MEDICAL CORP	NASDAQ
QQQJ	INVESCO NASDAQ NEXT GEN 100 ETF	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
QQQY	DEFIANCE NASDAQ 100 ENHANCED OPTIONS INCOME ETF	NASDAQ
QSI	QUANTUM-SI INCORPORATED	NASDAQ
QTRX	QUANTERIX CORPORATION	NASDAQ
QTWO	Q2 HOLDINGS, INC.	NYSE
QUAD	QUAD/GRAPHICS, INC.	NYSE
RDWR	RADWARE LTD.	NASDAQ
REFR	RESEARCH FRONTIERS INC.	NASDAQ
RENB	RENOVARO BIOSCIENCES INC.	NASDAQ
REPL	REPLIMUNE GROUP, INC.	NASDAQ
RES	RPC INC	NYSE
RETL	DIREXION DAILY RETAIL BULL 3X SHARES	NYSE ARCA
RFIL	RF INDUSTRIES, LTD.	NASDAQ
RGA	REINSURANCE GROUP OF AMERICA INC	NYSE
RGLS	REGULUS THERAPEUTICS INC.	NASDAQ
RGNX	REGENXBIO INC.	NASDAQ
RLX	RLX TECHNOLOGY INC	NYSE
RMTI	ROCKWELL MEDICAL, INC.	NASDAQ
RNR	RENAISSANCERE HOLDINGS LTD.	NYSE
ROP	ROPER TECHNOLOGIES, INC.	NASDAQ
RPAY	REPAY HOLDINGS CORP.	NASDAQ
RPM	RPM INTERNATIONAL, INC	NYSE
RVPH	REVIVA PHARMACEUTICALS HOLDINGS, INC.	NASDAQ
RWAY	RUNWAY GROWTH FINANCE CORP.	NASDAQ
RWM	PROSHARES SHORT RUSSELL2000	NYSE ARCA
RYAAY	RYANAIR HOLDINGS PLC	NASDAQ
RYAN	RYAN SPECIALITY GROUP	NYSE
RYLD	GLOBAL X FDS RUSSELL 2000	NYSE ARCA
SAIC	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	NASDAQ
SBEV	SPLASH BEVERAGE GROUP, INC.	NYSE AMERICAN
SBH	SALLY BEAUTY HOLDINGS INC	NYSE
SCHB	SCHWAB US BROAD MARKET ETF	NYSE ARCA

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
SCM	STELLUS CAPITAL INVESTMENT CORP	NYSE
SCPH	SCPHARMACEUTICALS, INC.	NASDAQ
SCYX	SCYNEXIS, INC.	NASDAQ
SD	SANDRIDGE ENERGY, INC.	NYSE
SEI	SOLARIS ENERGY INFRASTRUCTURE, INC.	NYSE
SEMR	SEMRUSH HOLDINGS, INC.	NYSE
SF	STIFEL FINANCIAL CORP.	NYSE
SGHC	SUPER GROUP	NYSE
SGHT	SIGHT SCIENCES, INC.	NASDAQ
SGOL	ETFS PHYSICAL SWISS GOLD SHARES ETF	NYSE ARCA
SHOO	STEVEN MADDEN, LTD.	NASDAQ
SIEB	SIEBERT FINANCIAL CORP	NASDAQ
SITM	SITIME CORP	NASDAQ
SJT	SAN JUAN BASIN ROYALTY TRUST	NYSE
SLAB	SILICON LABORATORIES INC.	NASDAQ
SLP	SIMULATIONS PLUS, INC	NASDAQ
SLRN	ACELYRIN INC	NASDAQ
SMSI	SMITH MICRO SOFTWARE, INC.	NASDAQ
SNCR	SYNCHRONOSS TECHNOLOGIES, INC.	NASDAQ
SNCY	SUN COUNTRY AIRLINES HOLDINGS, INC.	NASDAQ
SND	SMART SAND, INC.	NASDAQ
SOYB	TEUCRIUM SOYBEAN ETF	NYSE ARCA
SPH	SUBURBAN PROPANE PARTNERS, L.P.	NYSE
SPHD	INVESCO S&P 500 HIGH DIVIDEND LOW VOLATILITY ETF	NYSE ARCA
SPRB	SPRUCE BIOSCIENCES, INC.	NASDAQ
SPSM	SPDR PORTFOLIO S&P 600 SMALL CAP ETF	NYSE ARCA
SPTN	SPARTAN STORES, INC.	NASDAQ
SPXC	SPX CORPORATION	NYSE
SRI	STONERIDGE, INC.	NYSE
SRRK	SCHOLAR ROCK HOLDING CORP.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
SRS	PROSHARES ULTRASHORT REAL ESTATE	NYSE ARCA
SSB	SOUTH STATE CORPORATION	NYSE
SSD	SIMPSON MANUFACTURING CO., INC.	NYSE
SSP	THE E.W. SCRIPPS COMPANY	NASDAQ
SST	SYSTEM1, INC	NYSE
STAG	STAG INDUSTRIAL, INC.	NYSE
STE	STERIS CORP.	NYSE
STEP	STEPSTONE GROUP INC	NASDAQ
STGW	STAGWELL INC.	NASDAQ
STKL	SUNOPTA INC.	NASDAQ
STKS	ONE GROUP HOSPITALITY, INC.	NASDAQ
STOK	STOKE THERAPEUTICS, INC.	NASDAQ
STR	SITIO ROYALTIES CORPORATION	NYSE
STRO	SUTRO BIOPHARMA, INC.	NASDAQ
STTK	SHATTUCK LABS, INC.	NASDAQ
SUI	SUN COMMUNITIES, INC.	NYSE
SUM	SUMMIT MATERIALS, INC.	NYSE
SVC	SERVICE PROPERTIES TRUST	NASDAQ
SVOL	SIMPLITY ETF VOL PREM	NYSE ARCA
SWTX	SPRINGWORKS THERAPEUTICS INC	NASDAQ
TAK	TAKEDA PHARMACEUTICAL COMPANY LIMITED	NYSE
TALK	TALKSPACE, INC.	NASDAQ
TARK	AXS 2X INNOVATION ETF	NASDAQ
TDUP	THREDUP INC	NASDAQ
TEF	TELEFONICA S.A.	NYSE
TFII	TFI INTERNATIONAL INC.	NYSE
TFIN	TRIUMPH FINANCIAL INC	NASDAQ
TFSL	TFS FINANCIAL CORPORATION	NASDAQ
TGI	TRIUMPH GROUP, INC.	NYSE
TIPT	TIPTREE INC.	NASDAQ
TKR	TIMKEN COMPANY	NYSE
TLH	ISHARES 10-20 YEAR TREASURY BOND ETF	NYSE ARCA

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
TLS	TELOS CORPORATION	NASDAQ
TLYS	TILLY'S INC.	NYSE
TNL	TRAVEL + LEISURE CO.	NYSE
TNYA	TENAYA THERAPEUTICS, INC.	NASDAQ
TOON	KARTOON STUDIOS, INC.	NYSE AMERICAN
TPH	TRI POINTE HOMES, INC.	NYSE
TPVG	TRIPLEPOINT VENTURE GROWTH BDC CORP.	NYSE
TRI	THOMSON REUTERS CORPORATION	NYSE
TRIN	TRINITY CAPITAL, INC.	NASDAQ
TRMK	TRUSTMARK CORPORATION	NASDAQ
TRTX	TPG RE FINANCE TRUST, INC.	NYSE
TSAT	TELESAT CORPORATION	NASDAQ
TSE	TRINSEO S.A.	NYSE
TSLX	SIXTH STREET SPECIALTY LENDING, INC.	NYSE
TSVT	2SEVENTY BIO, INC.	NASDAQ
TTEC	TTEC HOLDINGS, INC.	NASDAQ
TUA	SIMPLIFY SHORT TERM TREASURY FUTURES STRATEGY ETF	NYSE ARCA
TUSK	MAMMOTH ENERGY SERVICES INC	NASDAQ
TWKS	THOUGHTWORKS HOLDINGS	NASDAQ
TWM	PROSHARES ULTRASHORT RUSSELL 2000(REVERSE SPLIT)	NYSE ARCA
TYD	DIREXION DAILY 7 TO 10 YEAR TREASURY BULL 3X SHRS	NYSE ARCA
UAVS	AGEAGLE AERIAL SYSTEM INC.	NYSE AMERICAN
UCTT	ULTRA CLEAN HOLDINGS, INC.	NASDAQ
UGA	UNITED STATES GASOLINE	NYSE ARCA
UIS	UNISYS CORPORATION	NYSE
UPLD	UPLAND SOFTWARE, INC.	NASDAQ
USAU	U.S. GOLD CORP.	NASDAQ
USMV	ISHARES MSCI USA MINIMUM VOLATILITY	CBOE BZX

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
UTI	UNIVERSAL TECHNICAL INSTITUTE, INC.	NYSE
UVE	UNIVERSAL INSURANCE HOLDINGS, INC.	NYSE
UYG	PROSHARES ULTRA FINANCIALS	NYSE ARCA
VB	VANGUARD SMALL-CAP ETF	NYSE ARCA
VC	VISTEON CORP.	NASDAQ
VCEL	VERICEL CORPORATION	NASDAQ
VCLT	VANGUARD LONG-TERM CORPORATE BOND ETF	NASDAQ
VDE	VANGUARD ENERGY ETF	NYSE ARCA
VEA	VANGUARD FTSE DEVELOPED MARKETS ETF	NYSE ARCA
VERA	VERA THERAPEUTICS INC. CL A	NASDAQ
VIAV	VIAVI SOLUTIONS INC.	NASDAQ
VLRS	CONTROLADORA VUELA COMPANIA DE	NYSE
VNT	VONTIER CORP	NYSE
VOC	VOC ENERGY TRUST	NYSE
VOXX	VOXX INTERNATIONAL CORPORATION	NASDAQ
VOYA	VOYA FINANCIAL INC.	NYSE
VRA	VERA BRADLEY, INC.	NASDAQ
VREX	VAREX IMAGING CORPORATION	NASDAQ
VRRM	VERRA MOBILITY CORP.	NASDAQ
VSH	VISHAY INTERTECHNOLOGY	NYSE
VTGN	VISTAGEN THERAPEUTICS, INC.	NASDAQ
VTS	VITESSE ENERGY, INC.	NYSE
VTV	VANGUARD VALUE ETF	NYSE ARCA
VXUS	VANGUARD TOTAL INTERNATIONAL STOCK ETF	NASDAQ
VXZ	IPATH SERIES B S&P 500 VIX MID-TERM FUTURES ETN	CBOE BZX
VYGR	VOYAGER THERAPEUTICS, INC.	NASDAQ
VYX	NCR VOYIX CORPORATION	NYSE
WAFD	WASHINGTON FEDERAL INC.	NASDAQ
WDS	WOODSIDE ENERGY GROUP LTD	NYSE
WEAV	WEAVE COMMUNICATIONS, INC.	NYSE

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
WEBL	DIREXION DAILY DOW JONES INTERNET BULL 3X SHARES	NYSE ARCA
WIT	WIPRO LTD.	NYSE
WNC	WABASH NATIONAL CORP.	NYSE
WSO	WATSCO INC	NYSE
WTRG	ESSENTIAL UTILITIES, INC.	NYSE
WTTR	SELECT ENERGY SERVICES, INC.	NYSE
XELA	EXELA TECHNOLOGIES INC	NASDAQ
XENE	XENON PHARMACEUTICALS INC.	NASDAQ
XNET	XUNLEI LIMITED	NASDAQ
YRD	YIRENDAI LTD.	NYSE
YY	YY INC.	NASDAQ
ZNTL	ZENTALIS PHARMACEUTICALS, INC.	NASDAQ
ZVIA	ZEVIA PBC	NYSE
ZYME	ZYMEWORKS INC	NASDAQ

Please direct questions to the Regulatory Department at Regulatory@miaxglobal.com or (609) 897-7309.