

MIAX Sapphire Options Exchange Regulatory Circular 2024-64

DATE: October 18, 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 21, 2024

The following symbols will start trading on MIAX Sapphire Options (the “Exchange”) beginning Monday, October 21, 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
AAT	AMERICAN ASSETS TRUST, INC.	NYSE
AAXJ	ISHARES MSCI ALL COUNTRY ASIA EX JAPAN ETF	NASDAQ
ABTS	ABITS GROUP INC	NASDAQ
ACIW	ACI WORLDWIDE, INC.	NASDAQ
ACR	ACRES COMMERCIAL REALTY CORP.	NYSE
ACWX	ISHARES MSCI ACWI EX US ETF	NASDAQ
AGR	AVANGRID INC	NYSE
AIRS	AIRSCULPT TECHNOLOGIES, INC.	NASDAQ
ALG	ALAMO GROUP, INC.	NYSE
ANIK	ANIKA THERAPEUTICS INC.	NASDAQ
APYX	APYX MEDICAL CORPORATION	NASDAQ
AREN	ARENA GROUP HOLDINGS, INC.	NYSE AMERICAN
ARTY	ISHARES FUTURE AI & TECH ETF	NYSE ARCA
ASHS	DEUTSCHE X-TRACKERS HARVEST CSI 500 CHINA A-SHARES SMALL CAP ETF	NYSE ARCA
ATAT	ATOUR LIFESTYLE HOLDINGS LTD.	NASDAQ
ATR	APTARGROUP, INC.	NYSE
AVDV	AVANTIS INTERNATIONAL SMALL CAP VALUE ETF	NYSE ARCA

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
AWAY	ETFMG TRAVEL TECH ETF	NYSE ARCA
AXDX	ACCELERATE DIAGNOSTICS, INC.	NASDAQ
BBH	MARKET VECTORS BIOTECH ETF	NASDAQ
BHLB	BERKSHIRE HILLS BANCORP INC	NYSE
BIS	PROSHARES ULTRASHORT NASDAQ BIOTECH	NASDAQ
BKF	ISHARES MSCI BRIC ETF	NYSE ARCA
BLCN	SIREN NASDAQ NEXGEN ECONOMY ETF	NASDAQ
BLKB	BLACKBAUD INC.	NASDAQ
BNDD	KRANESHARES QUADRATIC DEFLATION ETF	NYSE ARCA
BRF	MARKET VECTORS BRAZIL SMALL CAP ETF	NYSE ARCA
BSIG	BRIGHTSPHERE INVESTMENT GROUP INC	NYSE
BZQ	PROSHARES ULTRASHORT MSCI BRAZIL CAPPED	NYSE ARCA
CBAN	COLONY BANKCORP, INC.	NASDAQ
CDP	COPT DEFENSE PROPERTIES	NYSE
CFFN	CAPITOL FEDERAL FINANCIAL	NASDAQ
CGA	CHINA GREEN AGRICULTURE, INC.	NYSE
CHE	CHEMED CORPORATION	NYSE
CHIQ	GLOBAL X MSCI CHINA CONSUMER DISCRETIONARY ETF	NYSE ARCA
CIVB	CIVISTA BANCSHARES INC	NASDAQ
CLDT	CHATHAM LODGING TRUST	NYSE
CMBT	EURONAV NV	NYSE
CNO	CNO FINANCIAL GROUP, INC.	NYSE
CNYA	ISHARE MSCI CHINA A ETF	CBOE BZX
COLL	COLLEGIUM PHARMACEUTICAL, INC.	NASDAQ
CON	CONCENTRA GROUP HOLDINGS PARENT, INC.	NYSE
CPSS	CONSUMER PORTFOLIO SERVICES, INC.	NASDAQ
CRBP	CORBUS PHARMACEUTICALS HOLDINGS, INC.	NASDAQ
CSBR	CHAMPIONS ONCOLOGY, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
CSGS	CSG SYSTEMS INTERNATIONAL INC.	NASDAQ
CSR	CENTERSPACE	NYSE
CSTE	CAESARSTONE SDOT-YAM LTD.	NASDAQ
CTKB	CYTEK BIOSCIENCES, INC.	NASDAQ
CTS	CTS CORPORATION	NYSE
CTSO	CYTOSORBENTS CORPORATION	NASDAQ
CVEO	CIVEO CORPORATION	NYSE
CWB	SPDR BARCLAYS CONVERTIBLE SECS ETF	NYSE ARCA
CXAI	CXAPP INC.	NASDAQ
CYD	CHINA YUCHAI INTERNATIONAL LIMITED	NYSE
DAVE	DAVE INC.	NASDAQ
DEM	WISDOMTREE EMERGING MARKETS EQ INC ETF	NYSE ARCA
DFE	WISDOMTREE EUROPE SMALLCAP DIVIDEND FUND	NYSE ARCA
DFIN	DONNELLEY FINANCIAL SOLUTIONS, INC.	NYSE
DGS	WISDOMTREE EMERGING MARKETS SMALLCAP DIVIDEND FUND	NYSE ARCA
DHX	DHI GROUP, INC.	NYSE
DJP	IPATH DJ-UBS COMMODITY INDX TOT RET ETN	NYSE ARCA
DLHC	DLH HOLDINGS CORP.	NASDAQ
DLPN	DOLPHIN ENTERTAINMENT INC	NASDAQ
DXPE	DXP ENTERPRISES, INC.	NASDAQ
ECVT	ECOVYST INC.	NYSE
EEMV	ISHARES MSCI EMERGING MARKETS MIN VOL FACTOR ETF	CBOE BZX
EEV	PROSHARES ULTRASHORT MSCI EMERGING MKTS	NYSE ARCA
EFAV	ISHARES EDGE MSCI MIN VOL EAFE	CBOE BZX
EFSC	ENTERPRISE FINANCIAL SERVICES CORP	NASDAQ
ENFN	ENFUSION, INC.	NYSE
ENSV	ENSERVCO CORPORATION	NYSE AMERICAN
ENTA	ENANTA PHARMACEUTICALS, INC.	NASDAQ
EPIX	ESSA PHARMA INC	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
EPSN	EPSILON ENERGY LTD.	NASDAQ
EPV	PROSHARES ULTRASHORT FTSE EUROPE	NYSE ARCA
ESCA	ESCALADE, INCORPORATED	NASDAQ
ESNT	ESSENT GROUP LTD.	NYSE
ETON	ETON PHARMACEUTICALS, INC	NASDAQ
EVTC	EVERTEC, INC.	NYSE
EWM	ISHARES MSCI MALAYSIA INDEX ETF	NYSE ARCA
FAN	FIRST TRUST GLOBAL WIND ENERGY ETF	NYSE ARCA
FARO	FARO TECHNOLOGIES	NASDAQ
FBNC	FIRST BANCORP	NASDAQ
FCF	FIRST COMMONWEALTH FINANCIAL CORP	NYSE
FCNCA	FIRST CITIZENS BANCSHARES, INC.	NASDAQ
FCUV	FOCUS UNIVERSAL INC	NASDAQ
FENG	PHOENIX NEW MEDIA LIMITED	NYSE
FGF	FUNDAMENTAL GLOBAL INC.	NASDAQ
FHTX	FOGHORN THERAPEUTICS, INC.	NASDAQ
FM	ISHARES MSCI FRONTIER 100 ETF	NYSE ARCA
FMAT	FIDELITY MSCI MATERIALS INDEX ETF	NYSE ARCA
FPE	FIRST TRUST PREFERRED SECURITIES AND INCOME ETF	NYSE ARCA
FR	FIRST INDUSTRIAL REALTY TRUST	NYSE
FRSX	FORESIGHT AUTONOMOUS HOLDINGS LTD	NASDAQ
FSTR	LB FOSTER CO.	NASDAQ
FTFT	FUTURE FINTECH GROUP INC.	NASDAQ
FXH	FIRST TRUST HEALTH CARE ALPHADEX ETF	NYSE ARCA
FXP	PROSHARES ULTRASHORT FTSE CHINA 50	NYSE ARCA
GAMR	WEDBUSH ETFMG VIDEO GAME TECH ETF	NYSE ARCA
GAN	GAN LIMITED	NASDAQ
GBIO	GENERATION BIO CO.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
GBTG	GLOBAL BUSINESS TRAVEL GROUP, INC	NYSE
GEOS	GEOSPACE TECHNOLOGIES CORPORATION	NASDAQ
GMAB	GENMAB A/S	NASDAQ
GORO	GOLD RESOURCE CORPORATION	NYSE AMERICAN
GTIM	GOOD TIMES RESTAURANTS INC.	NASDAQ
GXG	GLOBAL X MSCI COLOMBIA ETF	NYSE ARCA
HAYW	HAYWARD HOLDINGS INC	NYSE
HBIO	HARVARD BIOSCIENCE, INC.	NASDAQ
HCM	HUTCHMED (CHINA) LIMITED	NASDAQ
HDGE	ADVISORSHARES RANGER EQUITY BEAR ETF	NYSE ARCA
HDRO	DEFIANCE NEXT GEN H2 ETF	NYSE ARCA
HEDJ	WISDOMTREE EUROPE HEDGED EQUITY FUND	NYSE ARCA
HERO	GLOBAL X VIDEO GAMES & ESPORTS ETF	NASDAQ
HGTY	HAGERTY INC	NYSE
HI	HILLENBRAND INC	NYSE
HONE	HARBORONE BANCORP INC	NASDAQ
HSII	HEIDRICK & STRUGGLES INTERNATIONAL INC.	NASDAQ
HSTM	HEALTHSTREAM INC	NASDAQ
HYMB	SPDR NUVEEN BLOOMBERG HIGH YIELD MUNICIPAL BOND ETF	NYSE ARCA
IAI	ISHARES U.S. BROKER-DEALERS & SEC. EXCHANGES ETF	NYSE ARCA
IBCP	INDEPENDENT BANK CORP/MI	NASDAQ
IBTA	IBOTTA, INC.	NYSE
IDGT	ISHARES U.S. DIGITAL INFRASTRUCTURE AND REAL ESTATE ETF	NYSE ARCA
IDRV	ISHARES SELF-DRIVING EV AND TECH ETF	NYSE ARCA
IEV	ISHARES EUROPE	NYSE ARCA
IEX	IDEX CORPORATION	NYSE
IMKTA	INGLES MARKETS, INCORPORATED	NASDAQ
INFL	HORIZON KINETICS INFLATION BENEFICIARIES ETF	NYSE ARCA

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
INNV	INNOVAGE HOLDING CORP	NASDAQ
IPSC	CENTURY THERAPEUTICS, INC.	NASDAQ
ITM	VANECK INTERMEDIATE MUNI ETF	CBOE BZX
ITP	IT TECH PACKAGING, INC.	NYSE AMERICAN
IWV	ISHARES RUSSELL 3000 INDX	NYSE ARCA
IYE	ISHARES DJ US ENERGY SECTOR ETF	NYSE ARCA
IYM	ISHARES DOW JONES U.S. BASIC MATERIALS SECT	NYSE ARCA
IYZ	ISHARES US TELECOMMUNICATIONS	CBOE BZX
JHG	JANUS HENDERSON GROUP PLC	NYSE
KBA	KRANESHARES BOSERA MSCI CHINA A ETF	NYSE ARCA
KELYA	KELLY SERVICES INC	NASDAQ
KEP	KOREA ELECTRIC POWER CORP.	NYSE
KFRC	KFORCE INC	NYSE
KINS	KINGSTONE COMPANIES INCORPORATED	NASDAQ
KLTR	KALTURA, INC.	NASDAQ
KMDA	KAMADA LTD	NASDAQ
KOP	KOPPERS HOLDINGS, INC.	NYSE
KRG	KITE REALTY GROUP TRUST	NYSE
KRMD	SUNDIAL GROWERS INC	NASDAQ
KRNY	KEARNY FINANCIAL CORP.	NASDAQ
LASR	NLIGHT, INC	NASDAQ
LCUT	LIFETIME BRANDS, INC	NASDAQ
LINE	LINEAGE, INC.	NASDAQ
LMAT	LEMAITRE VASCULAR INC.	NASDAQ
LOOP	LOOP INDUSTRIES, INC	NASDAQ
LQDT	LIQUIDITY SERVICES, INC.	NASDAQ
LSAK	LESAKA TECHNOLOGIES, INC.	NASDAQ
LXP	LEXINGTON REALTY TRUST	NYSE
MCRI	MONRACH CASINO & RESORT, INC	NASDAQ
MDWD	MEDIWOUND LTD	NASDAQ
MHLD	MAIDEN HOLDINGS LTDSHS	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
ML	MONEYLION INC	NYSE
MLNK	MERIDIANLINK, INC.	NYSE
MMS	MAXIMUS, INC.	NYSE
MNOV	PROG HOLDINGS, INC.	NASDAQ
MORN	MORNINGSTAR INC	NASDAQ
MOV	MOVADO GROUP, INC.	NYSE
MSTX	TIDAL TRUST II - DEFIANCE DAILY TARGET 1.75X LONG MSTR ETF	NASDAQ
MTUS	METALLUS INC.	NYSE
MYO	MYOMO, INC.	NYSE AMERICAN
NERD	ROUNDHILL BITKRAFT ESPORTS & DIGITAL ENTERTAINMENT ETF	NASDAQ
NEXA	NEXA RESOURCES S.A.	NYSE
NGS	NATURAL GAS SERVICES GROUP	NYSE
NGVC	NATURAL GROCERS BY VITAMIN COTTAGE, INC.	NYSE
NHC	NATIONAL HEALTHCARE CORPORATION	NYSE AMERICAN
NHTC	NATURAL HEALTH TRENDS CORP.	NASDAQ
NOVT	NOVANTA INC.	NASDAQ
NPO	ENPRO INDUSTRIES INC	NYSE
NSPR	INSPIREMD, INC.	NASDAQ
NVEE	NV5 GLOBAL INC.	NASDAQ
NWPX	NORTHWEST PIPE COMPANY	NASDAQ
NX	QUANEX BUILDING PRODUCTS CORPORATION	NYSE
NXTC	NEXTCURE, INC	NASDAQ
OCFT	ONECONNECT FINANCIAL TECHNOLOGY CO LTD	NYSE
OGIG	OSHARES GLOBAL INTERNET GIANTS ETF	CBOE BZX
ONEQ	FIDELITY NASDAQ COMPOSITE INDEX ETF	NASDAQ
ONLN	PROSHARES ONLINE RETAIL ETF	NYSE ARCA
ORIC	ORIC PHARMACEUTICALS INC	NASDAQ
ORRF	ORRSTOWN FINANCIAL SERVICES, INC.	NASDAQ
OZEM	ROUNDHILL GLP-1 & WEIGHT LOSS ETF	NASDAQ
PASG	PASSAGE BIO, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
PAVM	PAVMED INC	NASDAQ
PDFS	PDF SOLUTIONS INC	NASDAQ
PEJ	INVESCO DYNAMIC LEISURE & ENTERTAINMENT ETF	NYSE ARCA
PFFD	GLOBAL X U.S. PREFERRED ETF	NYSE ARCA
PGF	POWERSHARES FINANCIAL PREFERRED ETF	NYSE ARCA
PGRE	PARAMOUNT GROUP INC.	NYSE
PKBK	PARKE BANCORP, INC.	NASDAQ
PLOW	DOUGLAS DYNAMICS, INC.	NYSE
PROF	PROFOUND MEDICAL CORP	NASDAQ
PSCE	INVESCO S&P SMALLCAP ENERGY ETF	NASDAQ
PSO	PEARSON PLC	NYSE
PVBC	PROVIDENT BANCORP INC	NASDAQ
PVL	PERMIANVILLE ROYALTY TRUST	NYSE
PXJ	INVESCO DYNAMIC OIL & GAS SERVICES ETF	NYSE ARCA
QXO	QXO, INC.	NASDAQ
RDI	READING INTERNATIONAL INC	NASDAQ
REET	ISHARES GLOBAL REIT ETF	NYSE ARCA
REYN	REYNOLDS CONSUMER PRODUCTS	NASDAQ
RINC	AXS REAL ESTATE INCOME ETF	NYSE ARCA
RLI	RLI CORPORATION	NYSE
RLJ	RLJ LODGING TRUST	NYSE
RM	REGIONAL MANAGEMENT CORP.	NYSE
ROAD	CONSTRUCTION PARTNERS, INC	NASDAQ
RPAR	RPAR RISK PARITY	NYSE ARCA
RPG	INVESCO S&P 500 PURE GROWTH ETF	NYSE ARCA
RTH	MARKET VECTORS RETAIL ETF	NASDAQ
RVSB	RIVERVIEW BANCORP, INC.	NASDAQ
SAFT	SAFETY INSURANCE GROUP INC.	NASDAQ
SCHO	SCHWAB SHORT-TERM US TREASURY ETF	NYSE ARCA
SCSC	SCANSOURCE, INC.	NASDAQ
SCZ	ISHARES MSCI EAFE SMALL CAP INDEX FUND	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
SEF	SHORT FINANCIALS PROSHARES	NYSE ARCA
SERV	SERVE ROBOTICS INC.	NASDAQ
SGC	SUPERIOR GROUP OF COMPANIES, INC.	NASDAQ
SGMT	SAGIMET BIOSCIENCES INC.	NASDAQ
SHC	SOTERA HEALTH COMPANY	NASDAQ
SHEN	SHENANDOAH TELECOMMUNICATIONS CO	NASDAQ
SITC	SITE CENTERS CORPORATION	NYSE
SIXG	DEFIANCE CONNECTIVE TECHNOLOGIES ETF	NASDAQ
SJNK	SPDR BARCLAYS SHORT TERM HIGH YIELD BOND ETF	NYSE ARCA
SKM	SK TELECOM CO. LTD	NYSE
SLDB	SOLID BIOSCIENCES, INC	NASDAQ
SLGN	SILGAN HOLDINGS INC.	NYSE
SLX	VANECK VECTORS STEEL ETF	NYSE ARCA
SNN	SMITH & NEPHEW PLC	NYSE
SOC	SABLE OFFSHORE CORP.	NYSE
SOCL	GLOBAL X SOCIAL MEDIA INDEX ETF	NASDAQ
SPCX	SPAC AND NEW ISSUE ETF	NASDAQ
SPI	SPI ENERGY CO LTD	NASDAQ
SPNS	SAPIENS INTERNATIONAL CORPORATION NV	NASDAQ
SPSC	SPS COMMERCE, INC.	NASDAQ
SPTI	SPDR PORTFOLIO INTERMEDIATE TERM TREASURY ETF	NYSE ARCA
SPTM	SPDR PORTFOLIO TOTAL STOCK MARKET ETF	NYSE ARCA
SPYI	NEOS S&P 500 HIGH INCOME ETF	CBOE BZX
SY	SO-YOUNG INTERNATIONAL, INC.	NASDAQ
TAIL	CAMBRIA TAIL RISK ETF	CBOE BZX
TBI	TRUEBLUE, INC.	NYSE
TBNK	TERRITORIAL BANCORP INC.	NASDAQ
TCMD	TACTILE SYSTEMS TECHNOLOGY I	NASDAQ
THCH	TH INTERNATIONAL LIMITED	NASDAQ
THD	ISHARES MSCI THAILAND ETF	NYSE ARCA

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
THRM	GENTHERM INC	NASDAQ
THRY	THRYV HOLDINGS, INC.	NASDAQ
THTX	THERATECHNOLOGIES INC.	NASDAQ
TIMB	TIM S.A.	NYSE
TLN	TALEN ENERGY CORP	NASDAQ
TOKE	CAMBRIA CANNABIS ETF	CBOE BZX
TOWN	TOWNEBANK	NASDAQ
TRUE	TRUECAR, INC.	NASDAQ
TTGT	TECHTARGET, INC.	NASDAQ
TTSH	TILE SHOP HOLDINGS, INC.	NASDAQ
TXMD	THERAPEUTICSMD, INC	NASDAQ
UE	URBAN EDGE PROPERTIES	NYSE
UGP	ULTRAPAR PARTICIPACOES SA	NYSE
ULE	PROSHARES ULTRA EURO	NYSE ARCA
ULTY	YIELDMAX ULTRA OPTION INCOME STRATEGY ETF	NYSE ARCA
UONEK	URBAN ONE INC	NASDAQ
USL	UNITED STATES 12 MONTH OIL FUND, LP	NYSE ARCA
USNA	USANA HEALTH SCIENCES, INC.	NYSE
USPH	US PHYSICAL THERAPY INC	NYSE
VBTX	VERITEX HOLDINGS INC	NASDAQ
VIRC	VIRCO MFG CORP	NASDAQ
VIRX	VIRACTA THERAPEUTICS, INC.	NASDAQ
VMBS	VANGUARD MORTGAGE-BACKED SECURITIES ETF	NASDAQ
VOE	VANGUARD MID-CAP VALUE ETF	NYSE ARCA
VTEX	VTEX	NYSE
VTOL	BRISTOW GROUP INC	NYSE
VVX	V2X, INC.	NYSE
WERN	WERNER ENTERPRISES INC.	NASDAQ
WSBF	WATERSTONE FINANCIAL, INC.	NASDAQ
XBIT	XBIOTECH, INC.	NASDAQ
XGN	EXAGEN, INC.	NASDAQ
XHR	XENIA HOTELS & RESORTS, INC.	NYSE
XNCR	XENCOR, INC.	NASDAQ

SECURITY SYMBOL	SECURITY NAME	EXCHANGE FOR OPENING
XOMA	XOMA CORPORATION	NASDAQ
XPP	PROSHARES ULTRA FTSE CHINA 50	NYSE ARCA
ZKIN	ZK INTERNATIONAL GROUP CO., LTD.	NASDAQ

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