



DATE: March 29, 2019

TO: MIAX Emerald Members

FROM: MIAX Emerald Regulatory Department

RE: Market for Underlying Security Used for Openings on MIAX Emerald for Newly Listed Option Symbols Effective Monday, April 01, 2019

The following symbols will start trading on MIAX Emerald beginning Monday, April 1, 2019, and, as set forth in MIAX Emerald Rule 503(d), MIAX Emerald shall use the exchange identified below as the “market for the underlying security” for purposes of Openings on the Exchange.

UNDERLYING SYMBOL	SECURITY NAME	OPTION SYMBOL	EXCHANGE FOR OPENING
AAL	American Airlines Group Inc.	AAL	NASDAQ
AAOI	Applied Optoelectronics, Inc.	AAOI	NASDAQ
ABBV	AbbVie Inc.	ABBV	NYSE
ABT	Abbott Laboratories	ABT	NYSE
ACAD	ACADIA Pharmaceuticals, Inc.	ACAD	NASDAQ
ACHC	Acadia Healthcare Company, Inc.	ACHC	NASDAQ
ACN	Accenture plc	ACN	NYSE
ACRX	AcelRx Pharmaceuticals, Inc.	ACRX	NASDAQ
ADBE	Adobe Inc.	ADBE	NASDAQ
ADM	Archer-Daniels-Midland Company	ADM	NYSE
ADP	Automatic Data Processing, Inc.	ADP	NASDAQ
AEM	Agnico Eagle Mines Limited	AEM	NYSE
AFL	Aflac Incorporated	AFL	NYSE
AG	First Majestic Silver Corp.	AG	NYSE
AGN	Allergan plc	AGN	NYSE
AIG	American International Group, Inc.	AIG	NYSE
AKAM	Akamai Technologies, Inc.	AKAM	NASDAQ
AKRX	Akorn, Inc.	AKRX	NASDAQ
AKS	AK Steel Holding Corporation	AKS	NYSE
ALB	Albemarle Corporation	ALB	NYSE
ALL	The Allstate Corporation	ALL	NYSE
ALXN	Alexion Pharmaceuticals, Inc.	ALXN	NASDAQ
AMAT	Applied Materials, Inc.	AMAT	NASDAQ
AMBA	Ambarella, Inc.	AMBA	NASDAQ



AMC	AMC Entertainment Holdings, Inc.	AMC	NYSE
AMGN	Amgen Inc.	AMGN	NASDAQ
AMJ	JPMorgan Alerian MLP ETN	AMJ	NYSE Arca
AMLP	Alerian MLP ETF	AMLP	NYSE Arca
AMRN	Amarin Corporation plc	AMRN	NASDAQ
AMT	American Tower Corporation	AMT	NYSE
AMTD	Ameritrade Holding Corp	AMTD	NASDAQ
ANET	Arista Networks, Inc.	ANET	NYSE
ANF	Abercrombie & Fitch Co.	ANF	NYSE
APA	Apache Corporation	APA	NYSE
APC	Anadarko Petroleum Corporation	APC	NYSE
AR	Antero Resources Corporation	AR	NYSE
ARCC	Ares Capital Corporation	ARCC	NASDAQ
ARNC	Arconic Inc.	ARNC	NYSE
ASHR	Xtrackers Harvest CSI 300 China A ETF	ASHR	NYSE Arca
ATVI	Activision Blizzard, Inc.	ATVI	NASDAQ
AU	AngloGold Ashanti Limited	AU	NYSE
AUY	Yamana Gold, Inc.	AUY	NYSE
AVEO	Aveo Pharmaceuticals, Inc.	AVEO	NASDAQ
AVGO	Broadcom Inc.	AVGO	NASDAQ
AXL	American Axle & Manufacturing Holdings, Inc.	AXL	NYSE
AXP	American Express Company	AXP	NYSE
AXTA	Axalta Coating Systems Ltd.	AXTA	NYSE
AZN	AstraZeneca PLC	AZN	NYSE
AZO	Autozone, Inc.	AZO	NYSE
BA	The Boeing Company	BA	NYSE
BAX	Baxter International Inc.	BAX	NYSE
BBBY	Bed Bath & Beyond Inc.	BBBY	NASDAQ
BBD	Banco Bradesco S.A.	BBD	NYSE
BBT	BB&T Corporation	BBT	NYSE
BBY	Best Buy Co., Inc.	BBY	NYSE
BCS	Barclays PLC	BCS	NYSE
BG	Bunge Limited	BG	NYSE
BHC	Bausch Health Companies Inc.	BHC	NYSE
BHGE	Baker Hughes, a GE company	BHGE	NYSE
BHP	BHP Billiton Limited	BHP	NYSE
BIDU	Baidu, Inc.	BIDU	NASDAQ
BIIB	Biogen Inc.	BIIB	NASDAQ
BK	The Bank Of New York Mellon	BK	NYSE



	Corporation		
BKLN	Invesco Senior Loan ETF	BKLN	NYSE Arca
BKNG	Booking Holdings Inc.	BKNG	NASDAQ
BKS	Barnes & Noble, Inc.	BKS	NYSE
BMY	Bristol-Myers Squibb Company	BMY	NYSE
BOX	Box, Inc.	BOX	NYSE
BP	BP p.l.c.	BP	NYSE
BRKB	Berkshire Hathaway Inc.	BRKB	NYSE
BRZU	Direxion Daily MSCI Brazil Bull 3X ETF	BRZU	NYSE Arca
BX	The Blackstone Group L.P.	BX	NYSE
BYD	Boyd Gaming Corp.	BYD	NYSE
BZUN	Baozun Inc.	BZUN	NASDAQ
C	Citigroup, Inc.	C	NYSE
CAG	Conagra Brands, Inc.	CAG	NYSE
CAH	Cardinal Health Inc	CAH	NYSE
CAR	Avis Budget Group Inc	CAR	NASDAQ
CAT	Caterpillar Inc.	CAT	NYSE
CBL	CBL & Associates Properties, Inc.	CBL	NYSE
CBS	CBS Corporation	CBS	NYSE
CC	The Chemours Company	CC	NYSE
CCJ	Cameco Corporation	CCJ	NYSE
CCK	Crown Holdings Inc.	CCK	NYSE
CCL	Carnival Corporation	CCL	NYSE
CELG	Celgene Corporation	CELG	NASDAQ
CENX	Century Aluminum Company	CENX	NASDAQ
CF	CF Industries Holdings, Inc.	CF	NYSE
CGC	Canopy Growth Corporation	CGC	NYSE
CHK	Chesapeake Energy Corporation	CHK	NYSE
CIEN	Ciena Corporation	CIEN	NYSE
CL	Colgate-Palmolive Company	CL	NYSE
CLDR	Cloudera, Inc.	CLDR	NYSE
CLF	Cliffs Natural Resources Inc.	CLF	NYSE
CLR	Continental Resources, Inc.	CLR	NYSE
CLVS	Clovis Oncology, Inc.	CLVS	NASDAQ
CLX	The Clorox Company	CLX	NYSE
CMCSA	Comcast Corporation	CMCSA	NASDAQ
CME	CME Group Inc.	CME	NASDAQ
CMI	Cummins Inc.	CMI	NYSE
COF	Capital One Financial Corporation	COF	NYSE



COG	Cabot Oil & Gas Corporation	COG	NYSE
COP	ConocoPhillips	COP	NYSE
COST	Costco Wholesale Corporation	COST	NASDAQ
COTY	Coty Inc.	COTY	NYSE
CPB	Campbell Soup Company	CPB	NYSE
CPE	Callon Petroleum Company	CPE	NYSE
CPRI	Capri Holdings Limited	CPRI	NYSE
CREE	Cree, Inc.	CREE	NASDAQ
CRM	salesforce.com, inc.	CRM	NYSE
CRON	Cronos Group Inc.	CRON	NASDAQ
CS	Credit Suisse Group AG	CS	NYSE
CSCO	Cisco Systems, Inc.	CSCO	NASDAQ
CSIQ	Canadian Solar Inc.	CSIQ	NASDAQ
CSX	CSX Corporation	CSX	NASDAQ
CTRP	Ctrip.com International, Ltd.	CTRP	NASDAQ
CTSH	Cognizant Technology Solutions Corporation	CTSH	NASDAQ
CVNA	Carvana Co.	CVNA	NYSE
CVS	CVS Health Corporation	CVS	NYSE
CVX	Chevron Corporation	CVX	NYSE
CWH	Camping World Holdings, Inc.	CWH	NYSE
CX	Cemex, S.A.B. de C.V.	CX	NYSE
CY	Cypress Semiconductor Corporation	CY	NASDAQ
D	Dominion Resources	D	NYSE
DAL	Delta Air Lines Inc.	DAL	NYSE
DATA	Tableau Software Inc.	DATA	NYSE
DB	Deutsche Bank Aktiengesellschaft	DB	NYSE
DBX	Dropbox, Inc.	DBX	NASDAQ
DDD	3D Systems Corporation	DDD	NYSE
DELL	Dell Technologies, Inc.	DELL	NYSE
DG	Dollar General Corporation	DG	NYSE
DHI	D.R. Horton, Inc.	DHI	NYSE
DIA	SPDR Dow Jones Industrial Average ETF	DIA	NYSE Arca
DIS	The Walt Disney Company	DIS	NYSE
DISCA	Discovery, Inc.	DISCA	NASDAQ
DKS	Dick's Sporting Goods Inc.	DKS	NYSE
DLTR	Dollar Tree, Inc.	DLTR	NASDAQ
DNR	Denbury Resources Inc.	DNR	NYSE
DOCU	DocuSign Inc.	DOCU	NASDAQ



DUK	Duke Energy Corporation	DUK	NYSE
DUST	Direxion Daily Gold Miners Bear 3X ETF	DUST	NYSE Arca
DVA	DaVita Inc.	DVA	NYSE
DVN	Devon Energy Corporation	DVN	NYSE
DWDP	DowDuPont Inc.	DWDP	NYSE
DXC	DXC Technology Company	DXC	NYSE
DXJ	WisdomTree Japan Hedged Equity ETF	DXJ	NYSE Arca
EA	Electronic Arts Inc.	EA	NASDAQ
ECA	Encana Corporation	ECA	NYSE
EDU	New Oriental Education & Technology Group	EDU	NYSE
EFA	iShares MSCI EAFE ETF	EFA	NYSE Arca
EMB	iShares JP Morgan USD Em Mkts Bd ETF	EMB	NASDAQ
EMR	Emerson Electric Company	EMR	NYSE
ENDP	Endo International plc	ENDP	NASDAQ
EOG	EOG Resources, Inc.	EOG	NYSE
EPD	Enterprise Products Partners L.P.	EPD	NYSE
EQT	EQT Corporation	EQT	NYSE
ERIC	Telefonaktiebolaget LM Ericsson	ERIC	NASDAQ
ERX	Direxion Daily Energy Bull 3X ETF	ERX	NYSE Arca
ESPR	Esperion Therapeutics, Inc.	ESPR	NASDAQ
ET	Energy Transfer LP	ET	NYSE
ETN	Eaton Corporation plc	ETN	NYSE
EW	Edwards Lifesciences Corp.	EW	NYSE
EWZ	iShares MSCI Mexico Capped ETF	EWZ	NYSE Arca
EWZ	iShares MSCI Brazil Capped ETF	EWZ	NYSE Arca
EXAS	Exact Sciences Corp.	EXAS	NASDAQ
EXC	Exelon Corporation	EXC	NYSE
EXEL	Exelixis, Inc.	EXEL	NASDAQ
EXPE	Expedia Inc.	EXPE	NASDAQ
FANG	Diamondback Energy, Inc.	FANG	NASDAQ
FAS	Direxion Daily Financial Bull 3X ETF	FAS	NYSE Arca
FAST	Fastenal Company	FAST	NASDAQ
FAZ	Direxion Daily Financial Bear 3X ETF	FAZ	NYSE Arca
FCAU	Fiat Chrysler Automobiles N.V.	FCAU	NYSE
FCX	Freeport-McMoRan Inc.	FCX	NYSE
FDX	FedEx Corporation	FDX	NYSE
FEYE	FireEye, Inc.	FEYE	NASDAQ
FIT	Fitbit, Inc.	FIT	NYSE



FITB	Fifth Third Bancorp	FITB	NASDAQ
FIVE	Five Below Inc.	FIVE	NASDAQ
FL	Foot Locker, Inc.	FL	NYSE
FLEX	Flex Ltd.	FLEX	NASDAQ
FNSR	Finisar Corporation	FNSR	NASDAQ
FSLR	First Solar, Inc.	FSLR	NASDAQ
FTNT	Fortinet Inc.	FTNT	NASDAQ
FTR	Frontier Communications Corporation	FTR	NASDAQ
FTV	Fortive Corporation	FTV	NYSE
FXE	Invesco CurrencyShares Euro Currency	FXE	NYSE Arca
FXI	iShares China Large-Cap ETF	FXI	NYSE Arca
GBT	Global Blood Therapeutics, Inc.	GBT	NASDAQ
GDX	VanEck Vectors Gold Miners ETF	GDX	NYSE Arca
GERN	Geron Corporation	GERN	NASDAQ
GG	Goldcorp Inc.	GG	NYSE
GGB	Gerdau S.A.	GGB	NYSE
GILD	Gilead Sciences Inc.	GILD	NASDAQ
GIS	General Mills, Inc.	GIS	NYSE
GLNG	Golar LNG Limited	GLNG	NASDAQ
GLUU	Glu Mobile Inc	GLUU	NASDAQ
GLW	Corning Incorporated	GLW	NYSE
GM	General Motors Company	GM	NYSE
GME	Gamestop Corporation	GME	NYSE
GOGO	Gogo, Inc.	GOGO	NASDAQ
GOOG	Alphabet Inc.	GOOG	NASDAQ
GOOS	Canada Goose Holdings Inc.	GOOS	NYSE
GPOR	Gulfport Energy Corporation	GPOR	NASDAQ
GPS	The Gap, Inc.	GPS	NYSE
GRPN	Groupon, Inc.	GRPN	NASDAQ
GRUB	Grubhub Inc.	GRUB	NYSE
GS	The Goldman Sachs Group, Inc.	GS	NYSE
GSK	GlaxoSmithKline plc	GSK	NYSE
GT	The Goodyear Tire & Rubber Company	GT	NASDAQ
HAL	Halliburton Company	HAL	NYSE
HAS	Hasbro Inc.	HAS	NASDAQ
HBI	Hanesbrands Inc.	HBI	NYSE
HD	The Home Depot, Inc.	HD	NYSE
HEAR	Turtle Beach Corporation	HEAR	NASDAQ



HES	Hess Corporation	HES	NYSE
HIMX	Himax Technologies, Inc.	HIMX	NASDAQ
HLF	Herbalife Nutrition Ltd.	HLF	NYSE
HLT	Hilton Worldwide Holdings Inc.	HLT	NYSE
HOG	Harley-Davidson, Inc.	HOG	NYSE
HON	Honeywell International Inc.	HON	NYSE
HPE	Hewlett Packard Enterprise Company	HPE	NYSE
HPQ	HP Inc.	HPQ	NYSE
HSBC	HSBC Holdings Plc	HSBC	NYSE
HTZ	Hertz Global Holdings, Inc	HTZ	NYSE
HUN	Huntsman Corporation	HUN	NYSE
HUYA	HUYA Inc.	HUYA	NYSE
I	Intelsat S.A.	I	NYSE
IBB	iShares Nasdaq Biotechnology ETF	IBB	NASDAQ
IBN	ICICI Bank Limited	IBN	NYSE
ILMN	Illumina Inc.	ILMN	NASDAQ
IMMU	Immunomedics, Inc.	IMMU	NASDAQ
INFN	Infinera Corporation	INFN	NASDAQ
IP	International Paper Company	IP	NYSE
IQ	iQIYI, Inc.	IQ	NASDAQ
IRBT	iRobot Corporation	IRBT	NASDAQ
ISRG	Intuitive Surgical, Inc.	ISRG	NASDAQ
ITB	iShares US Home Construction ETF	ITB	BATS
ITUB	Itaú Unibanco Holding S.A.	ITUB	NYSE
IVZ	Invesco Ltd.	IVZ	NYSE
IWO	iShares Russell 2000 Growth ETF	IWO	NYSE Arca
IYR	iShares US Real Estate ETF	IYR	NYSE Arca
JBLU	JetBlue Airways Corporation	JBLU	NASDAQ
JCI	Johnson Controls International plc	JCI	NYSE
JD	JD.Com, Inc.	JD	NASDAQ
JNJ	Johnson & Johnson	JNJ	NYSE
JNK	SPDR Blmbg Barclays High Yield Bd ETF	JNK	NYSE Arca
JNUG	Direxion Daily Jr Gld Mnrs Bull 3X ETF	JNUG	NYSE Arca
JPM	JPMorgan Chase & Co.	JPM	NYSE
K	Kellogg Company	K	NYSE
KBE	SPDR S&P Bank ETF	KBE	NYSE Arca
KEM	Kemet Corporation	KEM	NYSE
KEY	KeyCorp	KEY	NYSE
KGC	Kinross Gold Corporation	KGC	NYSE



KHC	The Kraft Heinz Company	KHC	NASDAQ
KKR	KKR & Co. Inc.	KKR	NYSE
KMB	Kimberly-Clark Corporation	KMB	NYSE
KMX	CarMax Inc.	KMX	NYSE
KNX	Knight-Swift Transportation Holdings Inc.	KNX	NYSE
KR	The Kroger Company	KR	NYSE
KRE	SPDR S&P Regional Banking ETF	KRE	NYSE Arca
KSS	Kohl's Corporation	KSS	NYSE
KWEB	KraneShares CSI China Internet ETF	KWEB	NYSE Arca
LABU	Direxion Daily S&P Biotech Bull 3X ETF	LABU	NYSE Arca
LB	L Brands, Inc.	LB	NYSE
LITE	Lumentum Holdings Inc.	LITE	NASDAQ
LL	Lumber Liquidators Holdings Inc	LL	NYSE
LLY	Eli Lilly and Company	LLY	NYSE
LMT	Lockheed Martin Corporation	LMT	NYSE
LNG	Cheniere Energy, Inc.	LNG	AMEX
LOW	Lowe's Companies Inc.	LOW	NYSE
LQD	iShares iBoxx \$ Invmt Grade Corp Bd ETF	LQD	NYSE Arca
LRCX	Lam Research Corporation	LRCX	NASDAQ
LULU	Lululemon Athletica Inc.	LULU	NASDAQ
LUV	Southwest Airlines Company	LUV	NYSE
LVS	Las Vegas Sands Corporation	LVS	NYSE
LYB	LyondellBasell Industries N.V.	LYB	NYSE
MA	Mastercard Incorporated	MA	NYSE
MAR	Marriott International, Inc.	MAR	NASDAQ
MCD	McDonald's Corporation	MCD	NYSE
MDLZ	Mondelez International, Inc.	MDLZ	NASDAQ
MDR	McDermott International, Inc.	MDR	NYSE
MDT	Medtronic plc	MDT	NYSE
MELI	MercadoLibre, Inc.	MELI	NASDAQ
MET	MetLife, Inc.	MET	NYSE
MJ	ETFMG Alternative Harvest ETF	MJ	NYSE Arca
MLCO	Melco Resorts & Entertainment Limited	MLCO	NASDAQ
MMM	3M Company	MMM	NYSE
MNK	Mallinckrodt plc	MNK	NYSE
MNKD	MannKind Corporation	MNKD	NASDAQ
MNST	Monster Beverage Corporation	MNST	NASDAQ
MO	Altria Group Inc.	MO	NYSE
MOMO	Momo Inc.	MOMO	NASDAQ



MPC	Marathon Petroleum Corporation	MPC	NYSE
MRK	Merck & Company Inc.	MRK	NYSE
MRVL	Marvell Technology Group Ltd.	MRVL	NASDAQ
MS	Morgan Stanley	MS	NYSE
MSFT	Microsoft Corporation	MSFT	NASDAQ
MT	ArcelorMittal	MT	NYSE
MTCH	Match Group, Inc.	MTCH	NASDAQ
MYL	Mylan, Inc.	MYL	NASDAQ
NBL	Noble Energy Inc	NBL	NYSE
NBR	Nabors Industries Ltd.	NBR	NYSE
NE	Noble Corporation Plc	NE	NYSE
NEM	Newmont Mining Corporation	NEM	NYSE
NEPT	Neptune Wellness Solutions Inc.	NEPT	NASDAQ
NKE	NIKE Inc.	NKE	NYSE
NKTR	Nektar Therapeutics	NKTR	NASDAQ
NLSN	Nielsen Holdings plc	NLSN	NYSE
NLY	Annaly Capital Management, Inc.	NLY	NYSE
NOC	Northrop Grumman Corporation	NOC	NYSE
NOG	Northern Oil And Gas Inc	NOG	AMEX
NOV	National Oilwell Varco, Inc.	NOV	NYSE
NOW	ServiceNow Inc.	NOW	NYSE
NRG	NRG Energy, Inc.	NRG	NYSE
NSC	Norfolk Southern Corporation	NSC	NYSE
NTAP	NetApp, Inc.	NTAP	NASDAQ
NTES	NetEase, Inc.	NTES	NASDAQ
NUGT	Direxion Daily Gold Miners Bull 3X ETF	NUGT	NYSE Arca
NVAX	Novavax, Inc	NVAX	NASDAQ
NVDA	NVIDIA Corporation	NVDA	NASDAQ
NVS	Novartis AG	NVS	NYSE
NWL	Newell Brands Inc.	NWL	NASDAQ
NWSA	News Corporation	NWSA	NASDAQ
NXPI	NXP Semiconductors N.V.	NXPI	NASDAQ
OAS	Oasis Petroleum Inc.	OAS	NYSE
OCN	Ocwen Financial Corporation	OCN	NYSE
OIH	VanEck Vectors Oil Services ETF	OIH	NYSE Arca
OKTA	Okta, Inc.	OKTA	NASDAQ
OLED	Universal Display Corporation	OLED	NASDAQ
OMC	Omnicom Group Inc.	OMC	NYSE
ON	ON Semiconductor Corporation	ON	NASDAQ



OPK	OPKO Health, Inc.	OPK	NASDAQ
ORCL	Oracle Corporation	ORCL	NYSE
OSTK	Overstock.Com, Inc.	OSTK	NASDAQ
OXY	Occidental Petroleum Corporation	OXY	NYSE
PACB	Pacific Biosciences Of California Inc	PACB	NASDAQ
PAGS	PagSeguro Digital Ltd.	PAGS	NYSE
PAYX	Paychex, Inc	PAYX	NASDAQ
PENN	Penn National Gaming Inc	PENN	NASDAQ
PEP	Pepsico, Inc.	PEP	NASDAQ
PFE	Pfizer Inc.	PFE	NYSE
PG	The Procter & Gamble Company	PG	NYSE
PGR	The Progressive Corporation	PGR	NYSE
PHM	PulteGroup, Inc.	PHM	NYSE
PM	Philip Morris International, Inc.	PM	NYSE
PNC	The PNC Financial Services Group Inc.	PNC	NYSE
PPL	PPL Corporation	PPL	NYSE
PRU	Prudential Financial, Inc.	PRU	NYSE
PSTG	Pure Storage, Inc.	PSTG	NYSE
PSX	Phillips 66	PSX	NYSE
PVG	Pretium Resources, Inc.	PVG	NYSE
PVTL	Pivotal Software, Inc.	PVTL	NYSE
PXD	Pioneer Natural Resources Company	PXD	NYSE
PYPL	PayPal Holdings, Inc.	PYPL	NASDAQ
QCOM	QUALCOMM Incorporated	QCOM	NASDAQ
QEP	QEP Resources Inc.	QEP	NYSE
RAD	Rite Aid Corporation	RAD	NYSE
RAMP	LiveRamp Holdings Inc	RAMP	NYSE
RCL	Royal Caribbean Cruises Ltd.	RCL	NYSE
RDSA	Royal Dutch Shell Plc	RDSA	NYSE
REGN	Regeneron Pharmaceuticals, Inc.	REGN	NASDAQ
RH	RH	RH	NYSE
RIG	Transocean Ltd.	RIG	NYSE
RIO	Rio Tinto Group	RIO	NYSE
RIOT	Riot Blockchain, Inc.	RIOT	NASDAQ
RL	Ralph Lauren Corporation	RL	NYSE
RLGY	Realogy Holdings Corp.	RLGY	NYSE
RRC	Range Resources Corporation	RRC	NYSE
RSX	VanEck Vectors Russia ETF	RSX	NYSE Arca



RTN	Raytheon Company	RTN	NYSE
S	Sprint Corporation	S	NYSE
SCHW	The Charles Schwab Corporation	SCHW	NYSE
SDOW	ProShares UltraPro Short Dow30	SDOW	NYSE Arca
SEAS	SeaWorld Entertainment, Inc.	SEAS	NYSE
SFIX	Stitch Fix, Inc.	SFIX	NASDAQ
SGMS	Scientific Games Corporation	SGMS	NASDAQ
SHOP	Shopify Inc.	SHOP	NYSE
SIRI	Sirius XM Radio Inc.	SIRI	NASDAQ
SLB	Schlumberger Limited	SLB	NYSE
SLCA	US Silica Holdings Inc.	SLCA	NYSE
SLV	iShares Silver Trust	SLV	NYSE Arca
SMH	VanEck Vectors Semiconductor ETF	SMH	NYSE Arca
SNAP	Snap, Inc	SNAP	NYSE
SO	Southern Company	SO	NYSE
SONO	Sonos, Inc.	SONO	NASDAQ
SPLK	Splunk, Inc.	SPLK	NASDAQ
SPOT	Spotify Technology S.A.	SPOT	NYSE
SPWR	SunPower Corporation	SPWR	NASDAQ
SPXL	Direxion Daily S&P500 Bull 3X ETF	SPXL	NYSE Arca
SPXS	Direxion Daily S&P 500 Bear 3X ETF	SPXS	NYSE Arca
SPXU	ProShares UltraPro Short S&P500	SPXU	NYSE Arca
SQ	Square, Inc.	SQ	NYSE
SSO	ProShares Ultra S&P500	SSO	NYSE Arca
STM	STMicroelectronics N.V.	STM	NYSE
STX	Seagate Technology plc	STX	NASDAQ
STZ	Constellation Brands Inc.	STZ	NYSE
SU	Suncor Energy Inc.	SU	NYSE
SVXY	ProShares Short VIX Short-Term Futures	SVXY	NYSE Arca
SWK	Stanley Black & Decker, Inc.	SWK	NYSE
SWKS	Skyworks Solutions, Inc.	SWKS	NASDAQ
SWN	Southwestern Energy Company	SWN	NYSE
SYF	Synchrony Financial	SYF	NYSE
SYMC	Symantec Corporation	SYMC	NASDAQ
TAL	TAL Education Group	TAL	NYSE
TAP	Molson Coors Brewing Company	TAP	NYSE
TDOC	Teladoc Health, Inc.	TDOC	NYSE



TECK	Teck Resources Limited	TECK	NYSE
TEVA	Teva Pharmaceutical Industries Limited	TEVA	NYSE
TGT	Target Corporation	TGT	NYSE
TGTX	TG Therapeutics, Inc.	TGTX	NASDAQ
THC	Tenet Healthcare Corporation	THC	NYSE
TIF	Tiffany & Co.	TIF	NYSE
TJX	The TJX Companies, Inc.	TJX	NYSE
TLRY	Tilray, Inc.	TLRY	NASDAQ
TMUS	T-Mobile Us, Inc.	TMUS	NASDAQ
TOL	Toll Brothers Inc.	TOL	NYSE
TPR	Tapestry, Inc.	TPR	NYSE
TPX	Tempur Sealy International Inc.	TPX	NYSE
TQQQ	Proshares Ultra Pro QQQ	TQQQ	NASDAQ
TRI	Thomson Reuters Corporation	TRI	NYSE
TRIP	TripAdvisor, Inc.	TRIP	NASDAQ
TRN	Trinity Industries, Inc.	TRN	NYSE
TROX	Tronox Limited	TROX	NYSE
TRVN	Trevena, Inc.	TRVN	NASDAQ
TRXC	TransEnterix, Inc.	TRXC	AMEX
TSM	Taiwan Semiconductor Mfg. Company Limited	TSM	NYSE
TSN	Tyson Foods, Inc.	TSN	NYSE
TTD	The Trade Desk, Inc.	TTD	NASDAQ
TTM	Tata Motors Limited	TTM	NYSE
TTWO	Take-Two Interactive Software, Inc.	TTWO	NASDAQ
TUR	iShares MSCI Turkey ETF	TUR	NASDAQ
TWLO	Twilio, Inc.	TWLO	NYSE
TWTR	Twitter, Inc.	TWTR	NYSE
TXMD	TherapeuticsMD, Inc.	TXMD	NASDAQ
TXN	Texas Instruments Incorporated	TXN	NASDAQ
UA	Under Armour, Inc.	UA	NYSE
UAA	Under Armour, Inc.	UAA	NYSE
UAL	United Continental Holdings, Inc.	UAL	NASDAQ
UCO	ProShares Ultra Bloomberg Crude Oil	UCO	NYSE Arca
ULTA	Ulta Beauty, Inc.	ULTA	NASDAQ
UNG	United States Natural Gas	UNG	NYSE Arca
UNH	UnitedHealth Group Incorporated	UNH	NYSE
UNM	Unum Group	UNM	NYSE
UNP	Union Pacific Corporation	UNP	NYSE



UPRO	ProShares UltraPro S&P500	UPRO	NYSE Arca
UPS	United Parcel Service, Inc.	UPS	NYSE
URBN	Urban Outfitters, Inc.	URBN	NASDAQ
UTX	United Technologies Corporation	UTX	NYSE
UUP	Invesco DB US Dollar Bullish	UUP	NYSE Arca
UVXY	ProShares Ultra VIX Short-Term Futures	UVXY	NYSE Arca
V	Visa Inc.	V	NYSE
VEEV	Veeva Systems Inc.	VEEV	NYSE
VFC	V.F. Corporation	VFC	NYSE
VIPS	Vipshop Holdings Limited	VIPS	NYSE
VKTX	Viking Therapeutics, Inc.	VKTX	NASDAQ
VLO	Valero Energy Corporation	VLO	NYSE
VMW	VMware, Inc.	VMW	NYSE
VNQ	Vanguard Real Estate ETF	VNQ	NYSE Arca
VOD	Vodafone Group Plc	VOD	NASDAQ
VST	Vistra Energy Corp.	VST	NYSE
VWO	Vanguard FTSE Emerging Markets ETF	VWO	NYSE Arca
VZ	Verizon Communications Inc.	VZ	NYSE
W	Wayfair Inc.	W	NYSE
WB	Weibo Corporation	WB	NASDAQ
WBA	Walgreens Boots Alliance, Inc.	WBA	NASDAQ
WDAY	Workday, Inc.	WDAY	NASDAQ
WDC	Western Digital Corporation	WDC	NASDAQ
WFC	Wells Fargo & Company	WFC	NYSE
WFT	Weatherford International plc	WFT	NYSE
WHR	Whirlpool Corporation	WHR	NYSE
WMB	The Williams Companies, Inc.	WMB	NYSE
WPM	Wheaton Precious Metals Corp.	WPM	NYSE
WPX	WPX Energy, Inc.	WPX	NYSE
WSM	Williams-Sonoma, Inc.	WSM	NYSE
WWE	World Wrestling Entertainment, Inc.	WWE	NYSE
WYNN	Wynn Resorts, Limited	WYNN	NASDAQ
X	United States Steel Corporation	X	NYSE
XBI	SPDR S&P Biotech ETF	XBI	NYSE Arca
XLB	Materials Select Sector SPDR ETF	XLB	NYSE Arca
XLE	Energy Select Sector SPDR ETF	XLE	NYSE Arca
XLI	Industrial Select Sector SPDR ETF	XLI	NYSE Arca
XLNX	Xilinx, Inc.	XLNX	NASDAQ
XLU	Utilities Select Sector SPDR ETF	XLU	NYSE Arca



XLV	Health Care Select Sector SPDR ETF	XLV	NYSE Arca
XLY	Consumer Discret Sel Sect SPDR ETF	XLY	NYSE Arca
XME	SPDR S&P Metals and Mining ETF	XME	NYSE Arca
XOG	Extraction Oil & Gas, Inc.	XOG	NASDAQ
XOM	Exxon Mobil Corporation	XOM	NYSE
XPO	XPO Logistics, Inc.	XPO	NYSE
XRT	SPDR S&P Retail ETF	XRT	NYSE Arca
XRX	Xerox Corporation	XRX	NYSE
YELP	Yelp Inc.	YELP	NYSE
YNDX	Yandex N.V.	YNDX	NASDAQ
YPF	YPF Sociedad Anonima	YPF	NYSE
YUM	Yum! Brands, Inc.	YUM	NYSE
YY	YY Inc.	YY	NASDAQ
Z	Zillow Group, Inc.	Z	NASDAQ
ZION	Zions Bancorporation, National Association	ZION	NASDAQ
ZS	Zscaler, Inc.	ZS	NASDAQ

Regulatory questions may be directed to the MIAX Emerald Regulatory Department at Regulatory@MIAXOptions.com or (609) 897-7309.