



DATE: November 13, 2020

TO: MIAX Emerald Members

FROM: MIAX Regulatory Department

RE: Market for Underlying Security Used for Openings on MIAX Emerald for Newly Listed Symbols Effective Monday, November 16, 2020

The following symbols will start trading on MIAX Emerald beginning Monday, November 16, 2020. As set forth in MIAX Emerald Rule 503(d), the Exchange shall use the exchange identified below as the “market for the underlying security” for the purpose of Openings on the Exchange.

Security Symbol	Security Name	Exchange for Opening
AAON	AAON INC	NASDAQ
ABCB	Ameris Bancorp	NASDAQ
ABM	ABM INDUSTRIES INCORPORATED	NYSE
ACEL	ACCEL ENTERTAINMENT, INC.	NYSE
ACI	ALBERTSONS COMPANIES, INC.	NYSE
ACIA	Acacia Communications, Inc.	NASDAQ
ACIU	AC IMMUNE SA	NASDAQ
ACRE	Ares Commercial Real Estate Corporation	NYSE
ACRS	Aclaris Therapeutics, Inc.	NASDAQ
AFG	AMERICAN FINANCIAL GROUP	NYSE
AGX	Argan Inc	NYSE
AHH	Armada Hoffler Properties, Inc.	NYSE
ALBO	Albireo Pharma, Inc	NASDAQ
ALC	ALCON INC	NYSE
ALDX	ALDEYRA THERAPEUTICS, INC.	NASDAQ
ALEC	ALECTOR INC.	NASDAQ
AMCR	AMCOR PLC	NYSE
AMRC	Ameresco, Inc.	NYSE
AMX	America Movil S.A.B. de C.V.	NYSE
APAM	Artisan Partners Asset Management, Inc.	NYSE
API	AGORA, INC.	NASDAQ
APTS	Preferred Apartment Communities, Inc.	NYSE
AQST	AQUESTIVE THERAPEUTICS, INC.	NASDAQ
AQUA	Evoqua Water Technologies Corp.	NYSE



ARDX	Ardelyx, Inc.	NASDAQ
ARKF	ARK FINTECH INNOVATION	ARCA
ARKG	ARK GENOMIC REVOLUTION ETF	BATS
ARKQ	ARK AUTONOMOUS TECH & ROBOTICS	BATS
ARKW	ARK Next Generation Internet ETF	ARCA
ARNC	Arconic Inc.	NYSE
ARVN	Arvinas,inc	NASDAQ
ASAN	Asana, Inc.	NYSE
ASB	ASSOCIATED BANC CORP	NYSE
ATEC	ALPHATEC HOLDINGS INC	NASDAQ
ATOM	ATOMERA INCORPORATED	NASDAQ
AVDL	Avadel Pharmaceuticals plc	NASDAQ
AXU	Alexco Resource Corporation	AMEX
AYRO	AYRO, INC.	NASDAQ
AZEK	AZEK COMPANY INC	NYSE
BAND	BANDWIDTH, INC	NASDAQ
BATRK	Liberty Media Corporation (Series C) Liberty Brave	NASDAQ
BBIO	BRIDGEBIO PHARMA, INC.	NASDAQ
BBVA	BANCO BILBAO VIZCAYA	NYSE
BDN	Brandywine Realty Trust	NYSE
BEKE	KE Holdings Inc.	NYSE
BFAM	Bright Horizons Family Solutions Inc	NYSE
BHLB	Berkshire Hills Bancorp, Inc	NYSE
BKI	Black Knight, Inc.	NYSE
BL	BlackLine, Inc.	NASDAQ
BLCN	REALITY SHARES NASDAQ NEXTGEN ECONOMY ETF	NASDAQ
BLFS	BIOLIFE SOLUTIONS INC	NASDAQ
BLOK	AMPLIFY TRANSFORMATIONAL DATA SHARING ETF	ARCA
BMRA	BIOMERICA, INC.	NASDAQ
BND	Vanguard Total Bond Market ETF	NASDAQ
BPMP	BP Midstream Partners LP	NYSE
BRBR	BELLRING BRANDS INC	NYSE
BSET	Bassett Furniture Industries Inc	NASDAQ
BSM	Black Stone Minerals LP	NYSE
BXC	Bluelinx Holdings Inc	NYSE
BXRX	BAUDAX BIO INC	NASDAQ
CAAS	China Automotive Systems Inc	NASDAQ
CAE	CAE INC	NYSE
CAJ	Cannon Inc-Spons ADR	NYSE
CANE	TEUCRIUM SUGAR FUND	ARCA
CASH	Meta Financial Group Inc	NASDAQ
CBD	Companhia Brasileira de Distribuicao	NYSE
CBMG	Cellular Biomedicine Group Inc	NASDAQ
CDNA	CareDx, Inc	NASDAQ



CELH	CELSIUS HOLDINGS INC	NASDAQ
CEO	CNOOC LIMITED, ADS	NYSE
CFFN	Capitol Federal Financial	NASDAQ
CHX	ChampionX Corporation	NYSE
CIBR	First Trust Exchange-NASDAQ Cybersecurity ETF	NASDAQ
CLCT	Collectors Universe Inc.	NASDAQ
CLGX	CoreLogic Inc.	NYSE
CLOU	GLOBAL X CLOUD COMPUTING	NASDAQ
CLSK	CLEANSARK, INC.	NASDAQ
CMO	Capstead Mortgage Corp	NYSE
COLD	AMERICOLD REALTY TRUST	NYSE
CPT	Camden Property Trust	NYSE
CRDF	CARDIFF ONCOLOGY INC	NASDAQ
CRVS	CORVUS PHARMACEUTICALS INC	NASDAQ
CSGP	COSTAR GROUP	NASDAQ
CSPR	CASPER SLEEP INC	NYSE
CTRN	Citi Trends, Inc.	NASDAQ
CUB	CUBIC CORPORATION	NYSE
CULP	Culp, Inc.	NYSE
CURO	Curo Group Holdings Corp.	NYSE
CVGI	Commercial Vehicle Group Inc	NASDAQ
CVLG	Covenant Logistics Group, Inc.	NASDAQ
DEI	Douglas Emmett Inc	NYSE
DESP	Despegar Com Corp	NYSE
DFIN	Donnelley Financial Solutions, Inc	NYSE
DGII	Digi International Inc	NASDAQ
DNB	DUN & BRADSTREET HOLDINGS INC	NYSE
DOC	Physicians Realty Trust	NYSE
DOOR	Masonite International Corporation	NYSE
DRE	DUKE REALTY CORP.	NYSE
DRNA	Dicerna Pharmaceuticals, Inc.	NASDAQ
DSKE	Daseke Inc	NASDAQ
DSL	DoubleLine Income Solutions Fund	NYSE
DUST	Direxion Daily Gold Miners Index Bear 2X Shares	ARCA
DX	Dynex Capital, Inc.	NYSE
E	ENI SpA	NYSE
EFSC	Enterprise Financial Services Corp	NASDAQ
EGAN	eGain Corporation	NASDAQ
EIGR	EIGER BIOPHARMACEUTICALS INC	NASDAQ
ESCA	Escalade Inc.	NASDAQ
EVBG	Everbridge, Inc.	NASDAQ
EVOK	EVOKE PHARMA, INC.	NASDAQ
EVTC	EVERTEC Inc.	NYSE
EXPI	EXP WORLD HOLDINGS INC	NASDAQ



FAF	First American Financial Corporation	NYSE
FBK	FB Financial Corporation	NYSE
FBNC	First Bancorp	NASDAQ
FEAC	FLYING EAGLE ACQUISITION CORP	NYSE
FENC	FENNEC PHARMACEUTICALS INC.	NASDAQ
FIT	Fitbit Inc.	NYSE
FIXX	HOMOLOGY MEDICINES, INC.	NASDAQ
FLGT	FULGENT GENETICS, INC.	NASDAQ
FMX	Fomento Economico Mexicano, S.A.B. de C.V.	NYSE
FNB	F N B Corp. PA	NYSE
FNGS	MICROSECTORS FANG ETN	ARCA
FOCS	FOCUS FINANCIAL PARTNERS, INC.	NASDAQ
FOUR	SHIFT4 PAYMENTS, INC.	NYSE
FOXF	Fox Factory Holding Corp.	NASDAQ
FREE	WHOLE EARTH BRANDS INC	NASDAQ
FRT	Federal Realty Investment Trust	NYSE
FRTA	FORTERRA INC	NASDAQ
FSKR	FS KKR CAPITAL CORP. II	NYSE
FTDR	Frontdoor Inc	NASDAQ
FUTU	FUTU HOLDINGS LTD.	NASDAQ
FUV	ARCIMOTO INC	NASDAQ
FVAC	FORTRESS VALUE ACQUISITION CORP.	NYSE
GAIA	GAIA INC	NASDAQ
GAIN	Gladstone Investment Corporation	NASDAQ
GENE	GENETIC TECHNOLOGIES LIMITED	NASDAQ
GFL	GFL ENVIRONMENTAL INC	NYSE
GIB	CGI Inc.	NYSE
GKOS	Glaukos Corporation	NYSE
GLPG	Galapagos NV	NASDAQ
GMAB	GENMAB AS	NASDAQ
GMRE	GLOBAL MEDICAL REIT INC	NYSE
GNL	Global Net Lease, Inc.	NYSE
GNSS	Genasys Inc.	NASDAQ
GRBK	Green Brick Partners Inc.	NASDAQ
GRFS	Girfols SA	NASDAQ
GRWG	GROWGENERATION CORP	NASDAQ
GSG	iShares S&P GSCI Commodity Indexed Trust	ARCA
GSHD	Goosehead Insurance Inc	NASDAQ
GSS	GOLDEN STAR RESOURCES LTD	AMEX
GTHX	G1 Therapeutics Inc	NASDAQ
HAE	Haemonetics Corporation	NYSE
HALL	Hallmark Financial Services, Inc.	NASDAQ
HARP	HARPOON THERAPEUTICS, INC.	NASDAQ
HASI	Hannon Armstrong Sustainable Infrastructure Captl	NYSE



HBP	Huttig Building Products, Inc.	NASDAQ
HCAC	HENNESSY CAPITAL ACQUSTION CORP	NASDAQ
HCAT	HEALTH CATALYST, INC.	NASDAQ
HCHC	HC2 Holdings, Inc.	NYSE
HCSG	Healthcare Services Group, Inc.	NASDAQ
HMI	HUAMI CORPORATION	NYSE
HOLI	Hollysys Automation Technologies Ltd	NASDAQ
HPP	Hudson Pacific Properties Inc.	NYSE
HUD	Hudson Ltd.	NYSE
HUGE	FSD PHARMA INC.	NASDAQ
HYD	VanEck Vectors High Yield Muni ETF	BATS
HYRE	HYRECAR INC	NASDAQ
HZN	Horizon Global Corporation	NYSE
IAA	IAA, INC.	NYSE
IBIO	IBIO, INC.	AMEX
IBP	Installed Building Products, Inc.	NYSE
ICLK	ICLICK INTERACTIVE ASIA GROUP LTD.	NASDAQ
ICLN	ISHARES GLOBAL CLEAN ENERGY ETF	NASDAQ
IDN	INTELLICHECK INC	NASDAQ
IEFA	iShares Core MSCI EAFE ETF	BATS
IFRX	InflaRx N.V.	NASDAQ
IGM	iShares Expanded Tech Sector ETF	ARCA
IGMS	IGM BIOSCIENCES, INC.	NASDAQ
IHI	iShares U.S. Medical Devices ETF	ARCA
IMUX	IMMUNIC, INC.	NASDAQ
IMV	IMV INC.	NASDAQ
INSW	INTERNATIONAL SEAWAYS, INC.	NYSE
IPO	RENAISSANCE IPO ETF	ARCA
IRTC	iRhythm Technologies, Inc.	NASDAQ
IVC	Invacare Corp	NYSE
IVE	iShares S&P 500 Value ETF	ARCA
JAMF	JAMF HOLDING CORP	NASDAQ
JELD	JELD-WEN Holding, Inc.	NYSE
JOBS	51 Jobs Inc	NASDAQ
KBA	KraneShares Boserá MSCI China A	ARCA
KC	KINGSOFT CLOUD HOLDINGS LIMITED	NASDAQ
KCAC	KENSINGTON CAPITAL ACQUISITION CORP.	NYSE
KFRC	Kforce Inc	NASDAQ
KNSA	KINIKSA PHARMACEUTICALS LTD.	NASDAQ
KOD	KODIAK SCIENCES, INC.	NASDAQ
KOP	Koppers Holdings, Inc.	NYSE
KRMD	REPRO MED SYSTEMS INC	NASDAQ
KRTX	KARUNA THERAPEUTICS, INC.	NASDAQ
KTCC	Key Tronic Corporation	NASDAQ



KURA	Kura Oncology, Inc	NASDAQ
LAC	LITHIUM AMERICAS CORP	NYSE
LAND	GLADSTONE LAND CORP.	NASDAQ
LASR	NLIGHT INC	NASDAQ
LBRT	Liberty Oilfield Services Inc	NYSE
LCA	LANCADIA HOLDINGS II, INC.	NASDAQ
LI	LI AUTO, INC.	NASDAQ
LINC	Lincoln Educational Services Corporation	NASDAQ
LIND	LINDBLAD EXPEDITIONS HOLDINGS, INC.	NASDAQ
LIVX	LIVEXLIVE MEDIA INC	NASDAQ
LMND	LEMONADE, INC.	NYSE
LNTH	Lantheus Holdings, Inc.	NASDAQ
LOB	Live Oak Bancshares, Inc.	NASDAQ
LOOP	LOOP INDUSTRIES INC	NASDAQ
LPG	Dorian LPG Ltd.	NYSE
MATW	Matthews International Corporation	NASDAQ
MC	Moelis & Company	NYSE
MCFT	MasterCraft Boat Holdings, Inc.	NASDAQ
MCS	Marcus Corporation	NYSE
MCY	Mercury General Corporation	NYSE
MDU	MDU RESOURCES GROUP INC.	NYSE
MEDP	Medpace Holdings Inc.	NASDAQ
MEG	MONTROSE ENVIRONMENTAL GROUP	NYSE
MG	Mistras Group Inc	NYSE
MGIC	Magic Software Enterprises Ltd	NASDAQ
MGK	Vanguard Mega Cap Growth ETF	ARCA
MGY	Magnolia Oil Gas Corp	NYSE
MHO	M/I Homes Inc	NYSE
MIDU	Direxionshares Daily Mid Cap Bull 3X Shares	ARCA
MIME	Mimecast Limited	NASDAQ
MN	Manning & Napier Inc.	NYSE
MPX	Marine Products	NYSE
MR	Montage Resources Corporation	NYSE
MSGE	MADISON SQUARE GARDEN ENTERTAINMENT CORP	NYSE
MSTR	MICROSTRATEGY	NASDAQ
MTSC	MTS SYSTEMS CORP	NASDAQ
MTUM	iShares MSCI USA Momentum Factor ETF	BATS
NARI	INARI MEDICAL INC	NASDAQ
NCNO	NCINO, INC.	NASDAQ
NERD	ROUNDHILL BITKRAFT ESPORTS & DIGITAL ENTERTAINMENT	ARCA
NEWT	Newtek Business Services Corp.	NASDAQ
NFE	New Fortress Energy Inc.	NASDAQ
NGHC	National General Holdings Corporation	NASDAQ



NH	NantHealth, Inc.	NASDAQ
NIU	NIU TECHNOLOGIES	NASDAQ
NNA	NAVIOS MARITIME ACQUISITION CORPORATION	NYSE
NNVC	NANOVIRICIDES, INC.	AMEX
NOMD	NOMAD FOODS LTD	NYSE
NOVA	SUNNOVA ENERGY INTERNATIONAL INC	NYSE
NTRA	Natera, Inc.	NASDAQ
NWBI	Northwest Bancshares Inc	NASDAQ
NXTC	NEXTCURE, INC.	NASDAQ
ODT	ODONATE THERAPEUTICS, INC.	NASDAQ
OEC	Orion Engineered Carbons SA	NYSE
OESX	Orion Energy Systems, Inc.	NASDAQ
OOMA	Ooma, Inc.	NYSE
OPCH	Option Care Health, Inc.	NASDAQ
OPRA	OPERA LTD.	NASDAQ
OPRX	OPTIMIZERX CORP	NASDAQ
OPY	Oppenheimer Holdings Inc. Class A	NYSE
ORN	Orion Group Holdings, Inc.	NYSE
ORTX	ORCHARD THERAPEUTICS PLC	NASDAQ
OSW	ONESPAWORLD HOLDINGS LTD	NASDAQ
PAR	Par Technology Corporation	NYSE
PBW	Invesco WilderHill Clean Energy ETF	ARCA
PEN	Penumbra, Inc.	NYSE
PETQ	PETIQ Inc. Class A	NASDAQ
PEY	Invesco High Yield Equity Dividend Achievers ETF	NASDAQ
PFS	PROVIDENT FINANCIAL SERVICES, INC	NYSE
PICK	iShares MSCI Global Select Metals & Mining Produce	BATS
PLMR	PALOMAR HOLDINGS INC	NASDAQ
PNTG	PENNANT GROUP INC	NASDAQ
POR	PORTLAND GENERAL ELECTRIC COMPANY	NYSE
PPH	VanEck Vectors Pharmaceutical ETF	NASDAQ
PRCP	Perceptron, Inc.	NASDAQ
PRTS	CarParts.com, Inc.	NASDAQ
PWFL	PowerFleet, Inc.	NASDAQ
QGEN	QIAGEN N V	NYSE
QTS	QTS Realty Trust Inc.	NYSE
QYLD	GLOBAL X NASDAQ 100 COVERED CALL ETF	NASDAQ
RACE	Ferrari N.V	NYSE
RBBN	Ribbon Communications Inc.	NASDAQ
RBC	REGAL BELOIT CORPORATION	NYSE
RC	READY CAPITAL CORPORATION	NYSE
RCKT	Rocket Pharmaceuticals, Inc.	NASDAQ
RDHL	RedHill Biopharma Ltd	NASDAQ
RESI	Front Yard Residential Corporation	NYSE



RGA	Reinsurance Group of America Inc	NYSE
RGS	REGIS CORP.	NYSE
RKT	ROCKET COMPANIES INC	NYSE
RLH	Red Lion Hotels Corp	NYSE
RLMD	RELMADA THERAPEUTICS INC	NASDAQ
RNET	RigNet, Inc.	NASDAQ
RPAI	Retail Properties of America, Inc.	NYSE
RPAY	REPAY HOLDINGS CORP.	NASDAQ
RTL	RATTLER MIDSTREAM LP	NASDAQ
RVP	RETRACTABLE TECHNOLOGIES, INC.	AMEX
RXT	RACKSPACE TECHNOLOGY, INC.	NASDAQ
RYTM	Rhythm Pharmaceuticas Inc	NASDAQ
SAFE	Safehold Inc.	NYSE
SAH	SONIC AUTOMOTIVE, INC.	NYSE
SATS	EchoStar Corp	NASDAQ
SBBP	StrongBridge Biopharma Plc	NASDAQ
SCHD	Schwab US Dividend Equity ETF	ARCA
SCHG	Schwab U.S. Large-Cap Growth ETF	ARCA
SCPL	SCIPLAY CORP	NASDAQ
SCSC	SCANSOURCE, INC.	NASDAQ
SCWX	SecureWorks Corp.	NASDAQ
SCZ	iShares MSCI EAFE Small-Cap ETF	NASDAQ
SDGR	SCHRODINGER, INC.	NASDAQ
SELB	SELECTA BIOSCIENCES, INC.	NASDAQ
SGC	Superior Group of Companies, Inc.	NASDAQ
SGOL	Aberdeen Standard Physical Gold Shares ETF	ARCA
SGRY	Surgery Partners Inc.	NASDAQ
SIBN	SI-BONE, INC.	NASDAQ
SIGA	SIGA Technologies Inc.	NASDAQ
SII	SPROTT INC.	NYSE
SILK	SILK ROAD MEDICAL, INC.	NASDAQ
SLP	Simulations Plus Inc.	NASDAQ
SLQT	SELECTQUOTE, INC.	NYSE
SMCI	SUPER MICRO COMPUTER INC	NASDAQ
SMED	Sharps Compliance Corporation	NASDAQ
SNDR	Schneider National, Inc.	NYSE
SNDX	Syndax Pharmaceuticals, Inc	NASDAQ
SP	SP Plus Corporation	NASDAQ
SPLG	SPDR Portfolio S&P 500 ETF	ARCA
SPNE	SeaSpine Holdings Corporation	NASDAQ
SPT	SPROUT SOCIAL INC	NASDAQ
SPTN	SpartanNash Company	NASDAQ
SPYG	SPDR PORTFOLIO S&P 500 GROWTH ETF	ARCA
SPYV	SPDR PORTFOLIO S&P 500 VALUE ETF	ARCA



STL	Sterling Bancorp	NYSE
SURF	SURFACE ONCOLOGY, INC.	NASDAQ
SWAV	SHOCKWAVE MEDICAL INC.	NASDAQ
SYKE	SYKES ENTERPRISES	NASDAQ
SYRS	Syros Pharmaceuticals, Inc.	NASDAQ
TAST	Carrols Restaurant Group Inc	NASDAQ
TCDA	TRICIDA INC	NASDAQ
TCMD	Tactile Systems Technology I	NASDAQ
TCO	TAUBMAN CENTERS, INC	NYSE
TCRR	TCR2 THERAPEUTICS, INC.	NASDAQ
TECH	Bio-Techne Corp	NASDAQ
TEF	TELEFONICA S.A. ADR	NYSE
TENB	TENABLE HOLDINGS INC	NASDAQ
TFFP	TFF PHARMACEUTICALS, INC.	NASDAQ
TFX	TELEFLEX INC	NYSE
THCX	CANNABIS ETF	ARCA
TIGR	UP FINTECH HOLDINGS LIMITED	NASDAQ
TILE	Interface, Inc.	NASDAQ
TISI	Team, Inc.	NYSE
TLH	iShares 10-20 Year Treasury Bond ETF	ARCA
TLND	Talend SA Sponsored ADR	NASDAQ
TMDX	TRANSMEDICS GROUP, INC.	NASDAQ
TPB	Turning Piont Brands Inc	NYSE
TPIC	TPI Composites Inc	NASDAQ
TRNE	TRINE ACQUISITION CORP.	NYSE
TTGT	TechTarget, Inc.	NASDAQ
TWST	TWIST BIOSCIENCE CORP.	NASDAQ
UBX	UNITY BIOTECHNOLOGY INC.	NASDAQ
UE	Urban Edge Properties	NYSE
UMC	United Microelectronics Corporation	NYSE
URGN	Urogen Pharma Ltd	NASDAQ
USM	U.S. Cellular Corporation	NYSE
USPH	US PHYSICAL THERAPY INC	NYSE
UTI	Universal Technical Institute, Inc.	NYSE
UTZ	Utz Brands, Inc.	NYSE
VAPO	VAPOTHERM, INC.	NYSE
VB	Vanguard Small-Cap ETF	ARCA
VCNX	VACCINEX, INC.	NASDAQ
VNE	Veoneer Inc	NYSE
VPU	Vanguard Utilities Index Fund ETF	ARCA
VRRM	VERRA MOBILITY CORP.	NASDAQ
VRS	Verso Corp	NYSE
VRT	VERTIV HOLDINGS CO	NYSE
VTV	Vanguard Value ETF	ARCA



VUG	Vanguard Growth ETF	ARCA
VXRT	VAXART, INC.	NASDAQ
WBS	WEBSTER FINANCIAL CORPORATION	NYSE
WRE	Washington Real Estate Investment Trust	NYSE
WST	West Pharmaceutical Services Inc	NYSE
XERS	XERIS PHARMACEUTICALS INC	NASDAQ
XPEV	XPENG, INC. ADR CLASS A	NYSE
Y	Alleghany Corporation	NYSE
YCBD	CBDMD, INC.	AMEX
YOLO	ADVISORSHARES PURE CANNABIS ETF	ARCA
ZLAB	ZAI LAB LTD	NASDAQ

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