



The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Tuesday, March 2, 2021**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
ABIO	ARCA BIOPHARMA, INC.	ABIO	No	NASDAQ	4:00	Susquehanna Securities	1
ACCD	ACCOLADE INC	ACCD	No	NASDAQ	4:00	Susquehanna Securities	1
ACER	ACER THERAPEUTICS INC.	ACER	No	NASDAQ	4:00	Citadel Securities LLC	1
ACEV	ACE CONVERGENCE ACQUISITION CORP	ACEV	No	NASDAQ	4:00	Susquehanna Securities	1
ACOR	Acorda Therapeutics, Inc.	ACOR	No	NASDAQ	4:00	Citadel Securities LLC	1
ACTC	ARCLIGHT CLEAN TRANSITION CORPORATION	ACTC	No	NASDAQ	4:00	Susquehanna Securities	1
ADUS	Addus HomeCare Corporation	ADUS	No	NASDAQ	4:00	Susquehanna Securities	1
ADV	Advantage Solutions Inc.	ADV	No	NASDAQ	4:00	Citadel Securities LLC	1
AFRM	AFFIRM HOLDINGS, INC.	AFRM	No	NASDAQ	4:00	Morgan Stanley	1
AGS	PLAYAGS INC	AGS	No	NYSE	4:00	Susquehanna Securities	1
AHCO	ADAPTHEALTH CORP.	AHCO	No	NASDAQ	4:00	Wolverine Trading LLC	1
AIRG	Airgain Inc	AIRG	No	NASDAQ	4:00	Citadel Securities LLC	1
AJAX	AJAX I	AJAX	No	NYSE	4:00	Susquehanna Securities	1
AJRD	Aerojet Rocketdyne Holdings, Inc.	AJRD	No	NYSE	4:00	Susquehanna Securities	1
AKTS	AKOUSTIS TECHNOLOGIES, INC	AKTS	No	NASDAQ	4:00	Susquehanna Securities	1
ALSK	Alaska Communications Systems Group, Inc.	ALSK	No	NASDAQ	4:00	Citadel Securities LLC	1
AMPY	Amplify Energy Corporation	AMPY	No	NYSE	4:00	Susquehanna Securities	1
AMTX	AEMETIS, INC.	AMTX	No	NASDAQ	4:00	Susquehanna Securities	1
ANH	ANWORTH MORTGAGE ASSET CORP	ANH	No	NYSE	4:00	Susquehanna Securities	1
AOSL	Alpha and Omega Semiconductor Ltd	AOSL	No	NASDAQ	4:00	Susquehanna Securities	1
AOUT	AMERICAN OUTDOOR BRANDS, INC.	AOUT	No	NASDAQ	4:00	Wolverine Trading LLC	1

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APG	API GROUP CORPORATION	APG	No	NYSE	4:00	Wolverine Trading LLC	1
APLT	APPLIED THERAPEUTICS, INC.	APLT	No	NASDAQ	4:00	Susquehanna Securities	1
APPH	AppHarvest, Inc.	APPH	No	NASDAQ	4:00	Susquehanna Securities	1
APTX	APTINYX INC	APTX	No	NASDAQ	4:00	Susquehanna Securities	1
APXT	APEX TECHNOLOGY COMPANY	APXT	No	NASDAQ	4:00	Susquehanna Securities	1
AQB	AQUABOUTY TECHNOLOGIES, INC	AQB	No	NASDAQ	4:00	Wolverine Trading LLC	1
AQN	ALGONQUIN POWER & UTILITIES CORP	AQN	No	NYSE	4:00	Citadel Securities LLC	1
ARQT	ARCUTIS BIOTHERAPEUTICS INC	ARQT	No	NASDAQ	4:00	Citadel Securities LLC	1
ARRY	ARRY TECHNOLOGIES, INC.	ARRY	No	NASDAQ	4:00	Susquehanna Securities	1
ASO	ACADEMY SPORTS & OUTDOOR INC	ASO	No	NASDAQ	4:00	Wolverine Trading LLC	1
ASPN	ASPEN AEROGELS, INC.	ASPN	No	NYSE	4:00	Susquehanna Securities	1
ATAC	ALTIMAR ACQUISITION CORPORATION	ATAC	No	NYSE	4:00	Citadel Securities LLC	1
ATKR	Atkore International Group, Inc	ATKR	No	NYSE	4:00	Citadel Securities LLC	1
ATO	Atmos Energy Corp	ATO	No	NYSE	4:00	Citadel Securities LLC	1
ATOS	Atossa Therapeutics, Inc.	ATOS	No	NASDAQ	4:00	Morgan Stanley	1
AVRO	AVROBIO INC	AVRO	No	NASDAQ	4:00	Citadel Securities LLC	1
BALY	Bally's Corporation	BALY	No	NYSE	4:00	Citadel Securities LLC	2
BCEL	ATRECA, INC.	BCEL	No	NASDAQ	4:00	Citadel Securities LLC	2
BCSF	BAIN CAPITAL SPECIALTY FINANCE, INC.	BCSF	No	NYSE	4:00	Susquehanna Securities	2
BEAM	BEAM THERAPEUTICS, INC.	BEAM	No	NASDAQ	4:00	Citadel Securities LLC	2
BEEM	BEAM GLOBAL	BEEM	No	NASDAQ	4:00	Susquehanna Securities	2
BEPC	BROOKFIELD RENEWABLE CORPORATION	BEPC	No	NYSE	4:00	Citadel Securities LLC	2
BFI	BURGERFI INTERNATIONAL, INC.	BFI	No	NASDAQ	4:00	Susquehanna Securities	2
BFLY	Butterfly Network, Inc.	BFLY	No	NYSE	4:00	Wolverine Trading LLC	2
BFT	FOLEY TRASIMENE ACQUISITION CORP II	BFT	No	NYSE	4:00	Citadel Securities LLC	2

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BIOC	BIOCEPT INC	BIOC	No	NASDAQ	4:00	Susquehanna Securities	2
BLI	BERKELEY LIGHTS INC	BLI	No	NASDAQ	4:00	Citadel Securities LLC	2
BNGO	BIONANO GENOMICS, INC.	BNGO	Yes	NASDAQ	4:00	Citadel Securities LLC	2
BRP	BRP GROUP, INC.	BRP	No	NASDAQ	4:00	Susquehanna Securities	2
BTBT	BIT DIGITAL, INC.	BTBT	No	NASDAQ	4:00	Susquehanna Securities	2
BTWN	BRIDGETOWN HOLDINGS LIMITED	BTWN	No	NASDAQ	4:00	Susquehanna Securities	2
CAN	CANAAN INC. SPONSORED ADR	CAN	Yes	NASDAQ	4:00	Wolverine Trading LLC	2
CATB	CATABASIS PHARMACEUTICALS INC	CATB	No	NASDAQ	4:00	Citadel Securities LLC	2
CBAT	CBAK ENERGY TECHNOLOGY, INC.	CBAT	Yes	NASDAQ	4:00	Susquehanna Securities	2
CCX	CHURCHILL CAPITAL CORP II	CCX	No	NYSE	4:00	Wolverine Trading LLC	2
CD	CHINDATA GROUP HOLDINGS LIMITED	CD	No	NASDAQ	4:00	Wolverine Trading LLC	2
CDR	Cedar Realty Trust, Inc	CDR	No	NYSE	4:00	Susquehanna Securities	2
CDXS	Codexis Inc.	CDXS	No	NASDAQ	4:00	Citadel Securities LLC	2
CERC	Cerecor Inc.	CERC	No	NASDAQ	4:00	Citadel Securities LLC	2
CFRX	CONTRAFECT CORP.	CFRX	No	NASDAQ	4:00	Citadel Securities LLC	2
CGRO	COLLECTIVE GROWTH CORPORATION	CGRO	No	NASDAQ	4:00	Citadel Securities LLC	2
CHIQ	Global X MSCI China Consumer Discretionary ETF	CHIQ	No	NYSE ARCA	4:00	Citadel Securities LLC	2
CHNG	CHANGE HEALTHCARE INC	CHNG	Yes	NASDAQ	4:00	Susquehanna Securities	2
CIVB	Civista BancShares Inc	CIVB	No	NASDAQ	4:00	Citadel Securities LLC	2
CLA	COLONNADE ACQUISITION CORPORATION	CLA	No	NYSE	4:00	Susquehanna Securities	2
CLBS	Caladrius Biosciences, Inc.	CLBS	No	NASDAQ	4:00	Citadel Securities LLC	2
CLVR	Clever Leaves Holdings Inc.	CLVR	No	NASDAQ	4:00	Susquehanna Securities	2
CPLG	COREPOINT LODGING INC	CPLG	No	NYSE	4:00	Wolverine Trading LLC	2
CPST	CAPSTONE TURBINE CORPORATION	CPST	No	NASDAQ	4:00	Wolverine Trading LLC	2

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CRIS	Curis Inc	CRIS	No	NASDAQ	4:00	Morgan Stanley	2
CRTX	CORTEXIME, INC.	CRTX	No	NASDAQ	4:00	Susquehanna Securities	2
CSTL	CASTLE BIOSCIENCES, INC.	CSTL	No	NASDAQ	4:00	Citadel Securities LLC	2
CSWC	Capital Southwest Corp	CSWC	No	NASDAQ	4:00	Citadel Securities LLC	2
CTMX	CytomX Therapeutics, Inc.	CTMX	No	NASDAQ	4:00	Susquehanna Securities	2
CUE	CUE BIOPHARMA INC	CUE	No	NASDAQ	4:00	Citadel Securities LLC	2
CURI	CURIOSITYSTREAM INC	CURI	No	NASDAQ	4:00	Citadel Securities LLC	2
CVAC	CUREVAC N.V.	CVAC	No	NASDAQ	4:00	Citadel Securities LLC	2
CYCN	CYCLERION THERAPEUTICS, INC.	CYCN	No	NASDAQ	4:00	Citadel Securities LLC	2
DAC	DANAOS CORPORATION	DAC	No	NYSE	4:00	Susquehanna Securities	3
DADA	DADA NEXUS LTD.	DADA	No	NASDAQ	4:00	Citadel Securities LLC	3
DCT	DUCK CREEK TECHNOLOGIES, INC.	DCT	No	NASDAQ	4:00	Susquehanna Securities	3
DGRO	iShares Core Dividend Growth ETF	DGRO	No	NYSE ARCA	4:00	Citadel Securities LLC	3
DLHC	DLH HOLDINGSCORP.	DLHC	No	NASDAQ	4:00	Susquehanna Securities	3
DMTK	DERMTECH, INC.	DMTK	No	NASDAQ	4:00	Susquehanna Securities	3
DNMR	DANIMER SCIENTIFIC INC	DNMR	No	NYSE	4:00	Susquehanna Securities	3
DPW	Ault Global Holdings, Inc.	DPW	No	AMEX	4:00	Citadel Securities LLC	3
DTEA	DAVIDsTEA Inc.	DTEA	No	NASDAQ	4:00	Wolverine Trading LLC	3
DYAI	DYADIC INTERNATIONAL, INC.	DYAI	No	NASDAQ	4:00	Wolverine Trading LLC	3
DZSI	DZS INC.	DZSI	No	NASDAQ	4:00	Wolverine Trading LLC	3
EBC	EASTERN BANKSHARES, INC.	EBC	No	NASDAQ	4:00	Citadel Securities LLC	3
EBON	EBANG INTERNATIONAL HOLDINGS, INC.	EBON	Yes	NASDAQ	4:00	Susquehanna Securities	3
EKSO	EKSO BIONICS HOLDINGS, INC.	EKSO	No	NASDAQ	4:00	Wolverine Trading LLC	3
ELOX	ELOXX PHARMACEUTICALS, INC.	ELOX	No	NASDAQ	4:00	Susquehanna Securities	3

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EMAN	eMagin Corporation	EMAN	No	AMEX	4:00	Morgan Stanley	3
ENG	ENGLOBAL CORPORATION	ENG	No	NASDAQ	4:00	Citadel Securities LLC	3
ENLV	ENLIVEX THERAPEUTICS LTD.	ENLV	No	NASDAQ	4:00	Citadel Securities LLC	3
EOSE	Eos Energy Enterprises, Inc.	EOSE	No	NASDAQ	4:00	Wolverine Trading LLC	3
EPP	iShares MSCI Pacific ex Japan ETF	EPP	No	NYSE Arca	4:00	Wolverine Trading LLC	3
ERY	Direxion Daily Energy Bear 2X Shares	ERY	No	NYSE ARCA	4:00	Wolverine Trading LLC	3
ETWO	E2open Parent Holdings, Inc.	ETWO	No	NYSE	4:00	Citadel Securities LLC	3
EV	EATON VANCE CORP	EV	No	NYSE	4:00	Susquehanna Securities	3
EVA	Enviva Partners, LP	EVA	No	NYSE	4:00	Susquehanna Securities	3
EWBC	EAST WEST BANCORP INC	EWBC	No	NASDAQ	4:00	Morgan Stanley	3
EXLS	ExlService Holdings, Inc.	EXLS	No	NASDAQ	4:00	Citadel Securities LLC	3
FF	FutureFuel Corp	FF	No	NYSE	4:00	Wolverine Trading LLC	3
FIII	FORUM MERGER III CORPORATION	FIII	No	NASDAQ	4:00	Susquehanna Securities	3
FINV	FinVolution Group	FINV	No	NYSE	4:00	Susquehanna Securities	3
FIVG	DEFIANCE NEXT GEN CONNECTIVITY ETF	FIVG	No	NYSE ARCA	4:00	Citadel Securities LLC	3
FREQ	FREQUENCY THERAPEUTICS, INC.	FREQ	No	NASDAQ	4:00	Citadel Securities LLC	3
FROG	JFROG LTD.	FROG	No	NASDAQ	4:00	Wolverine Trading LLC	3
FTEK	Fuel Tech inc.	FTEK	No	NASDAQ	4:00	Susquehanna Securities	3
FTFT	FUTURE FINTECH GROUP INC.	FTFT	No	NASDAQ	4:00	Citadel Securities LLC	3
FTOC	FTAC OLYMPUS ACQUISITION CORP.	FTOC	No	NASDAQ	4:00	Wolverine Trading LLC	3
GAMR	WEDBUSH ETFMG VIDEO GAME TECH ETF	GAMR	No	NYSE Arca	4:00	Susquehanna Securities	4
GBDC	Golub Capital BDC, Inc.	GBDC	No	NASDAQ	4:00	Citadel Securities LLC	4
GEVO	GEVO, INC.	GEVO	No	NASDAQ	4:00	Citadel Securities LLC	4

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GIK	GIGCAPITAL3, INC.	GIK	No	NYSE	4:00	Susquehanna Securities	4
GIX	GIGCAPITAL2, INC.	GIX	No	NYSE	4:00	Wolverine Trading LLC	4
GMBL	ESPORTS ENTERTAINMENT GROUP	GMBL	No	NASDAQ	4:00	Wolverine Trading LLC	4
GMDA	GAMIDA CELL LTD	GMDA	No	NASDAQ	4:00	Citadel Securities LLC	4
GOCO	GOHEALTH INC	GOCO	No	NASDAQ	4:00	Wolverine Trading LLC	4
GP	GREENPOWER MOTOR COMPANY INC.	GP	No	NASDAQ	4:00	Wolverine Trading LLC	4
GRTS	GRITSTONE ONCOLOGY INC	GRTS	No	NASDAQ	4:00	Susquehanna Securities	4
GXGX	GX ACQUISITION CORP.	GXGX	No	NASDAQ	4:00	Wolverine Trading LLC	4
HEPA	HEPION PHARMACEUTICALS, INC.	HEPA	No	NASDAQ	4:00	Susquehanna Securities	4
HERO	GLOBAL X VIDEO GAMES & ESPORTS ETF	HERO	No	NASDAQ	4:00	Wolverine Trading LLC	4
HESM	Hess Midstream LP	HESM	No	NYSE	4:00	Wolverine Trading LLC	4
HIMS	Hims & Hers Health, Inc.	HIMS	No	NYSE	4:00	Susquehanna Securities	4
HIW	HIGHWOODS PROPERTIES, INC.	HIW	No	NYSE	4:00	Wolverine Trading LLC	4
HOOK	HOOKIPA PHARMA, INC.	HOOK	No	NASDAQ	4:00	Citadel Securities LLC	4
HRZN	Horizon Technology Finance Corp	HRZN	No	NASDAQ	4:00	Citadel Securities LLC	4
ICON	ICONIX BRAND GROUP INC	ICON	No	NASDAQ	4:00	Citadel Securities LLC	5
ICUI	ICU MEDICAL, INC.	ICUI	No	NASDAQ	4:00	Citadel Securities LLC	5
IDRV	ISHARES SELF-DRIVING EV AND TECH ETF	IDRV	No	NYSE Arca	4:00	Citadel Securities LLC	5
IDV	iShares International Select Dividend ETF	IDV	No	BATS	4:00	Citadel Securities LLC	5
IEA	INFRASTRUCTURE AND ENERGY ALTERNATIVES, INC.	IEA	No	NASDAQ	4:00	Citadel Securities LLC	5
IMVT	IMMUNOVANT INC	IMVT	No	NASDAQ	4:00	Susquehanna Securities	5
INOD	Innodata Inc	INOD	No	NASDAQ	4:00	Wolverine Trading LLC	5
IPOD	SOCIAL CAPITAL HEDOSOPHIA HOLDINGS CORPORATION IV	IPOD	No	NYSE	4:00	Citadel Securities LLC	5

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IPOE	SOCIAL CAPITAL HEDOSOPHIA HOLDINGS CORPORATION V	IPOE	Yes	NYSE	4:00	Susquehanna Securities	5
IPOF	SOCIAL CAPITAL HEDOSOPHIA HOLDINGS CORPORATION VI	IPOF	Yes	NYSE	4:00	IMC Financial Markets	5
IPV	INTERPRIVATE ACQUISITION CORP	IPV	No	NYSE	4:00	Citadel Securities LLC	5
ITI	Iteris, Inc.	ITI	No	NASDAQ	4:00	Susquehanna Securities	5
IVOL	QUADRATIC INTEREST RATE VOL. AND INFLATION ETF	IVOL	No	NYSE Arca	4:00	Wolverine Trading LLC	5
JAGX	JAGUAR HEALTH, INC.	JAGX	No	NASDAQ	4:00	Susquehanna Securities	5
JG	AURORA MOBILE LTD. SPONSORED ADR	JG	No	NASDAQ	4:00	Susquehanna Securities	5
JWS	JAWS ACQUISITION CORP	JWS	No	NYSE	4:00	Wolverine Trading LLC	5
KALV	KALVISTA PHARMACEUTICALS INC	KALV	No	NASDAQ	4:00	Susquehanna Securities	5
KBAL	Kimball International, Inc.	KBAL	No	NASDAQ	4:00	Citadel Securities LLC	5
KLR	KALEYRA INC	KLR	No	AMEX	4:00	Susquehanna Securities	5
KMPH	KEMPHARM, INC.	KMPH	No	NASDAQ	4:00	Citadel Securities LLC	5
KNSL	Kinsale Capital Group Inc	KNSL	No	NASDAQ	4:00	Wolverine Trading LLC	5
KRP	KIMBELL ROYALTY PARTNERS LP	KRP	No	NYSE	4:00	Susquehanna Securities	5
KT	KT Corp. ADS	KT	No	NYSE	4:00	Citadel Securities LLC	5
LCUT	LIFETIME BRANDS, INC	LCUT	No	NASDAQ	4:00	Wolverine Trading LLC	5
LEU	CENTRUS ENERGY CORP.	LEU	No	AMEX	4:00	Wolverine Trading LLC	5
LFMD	LifeMD, Inc.	LFMD	No	NASDAQ	4:00	Susquehanna Securities	5
LGFB	Lions Gate Entertainment Corporation	LGFB	No	NYSE	4:00	Morgan Stanley	5
LMRK	Landmark Infrastructure Partners LP	LMRK	No	NASDAQ	4:00	Citadel Securities LLC	5
LOTZ	CARLOTZ, INC.	LOTZ	No	NASDAQ	4:00	Susquehanna Securities	5
LPRO	OPEN LENDING CORPORATION	LPRO	No	NASDAQ	4:00	Citadel Securities LLC	5
LQDA	Liquidia Corporation	LQDA	No	NASDAQ	4:00	Citadel Securities LLC	5

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LSPD	LIGHTSPEED POS, INC.	LSPD	No	NYSE	4:00	Wolverine Trading LLC	5
LU	LUFAX HOLDING LTD	LU	No	NYSE	4:00	Wolverine Trading LLC	5
MAXN	MAXEON SOLAR TECHNOLOGIES, LTD	MAXN	No	NASDAQ	4:00	Wolverine Trading LLC	6
MCFE	MCAFEЕ CORP.	MCFE	No	NASDAQ	4:00	Wolverine Trading LLC	6
MDXG	MiMedx Group Inc	MDXG	No	NASDAQ	4:00	Wolverine Trading LLC	6
MESA	Mesa Air Group Inc	MESA	No	NASDAQ	4:00	Citadel Securities LLC	6
MILE	MetroMile, Inc.	MILE	No	NASDAQ	4:00	Wolverine Trading LLC	6
MIST	MILESTONE PHARMACEUTICALS, INC.	MIST	No	NASDAQ	4:00	Susquehanna Securities	6
MKL	Markel Corporation	MKL	No	NYSE	4:00	Susquehanna Securities	6
MNSO	MINISO GROUP HOLDING LTD.	MNSO	No	NYSE	4:00	Citadel Securities LLC	6
MOD	Modine Manufacturing Company	MOD	No	NYSE	4:00	Citadel Securities LLC	6
MORN	MORNINGSSTAR INC	MORN	No	NASDAQ	4:00	Susquehanna Securities	6
MRVI	Maravai LifeSciences Holdings, Inc.	MRVI	No	NASDAQ	4:00	Citadel Securities LLC	6
MSOS	ADVISOR SHARES PURE US CANNABIS	MSOS	No	NYSE ARCA	4:00	Susquehanna Securities	6
MTA	METALLA ROYALTY & STREAMING LTD.	MTA	No	AMEX	4:00	Wolverine Trading LLC	6
MTEM	MOLECULAR TEMPLATES, INC.	MTEM	No	NASDAQ	4:00	Citadel Securities LLC	6
MTLS	MATERIALISE NV	MTLS	No	NASDAQ	4:00	Susquehanna Securities	6
MTSC	MTS SYSTEMS CORP	MTSC	No	NASDAQ	4:00	Susquehanna Securities	6
MWK	MOHAWK GROUP HOLDINGS, INC.	MWK	No	NASDAQ	4:00	Wolverine Trading LLC	6
NBSE	NEUBASE THERAPEUTICS INC	NBSE	No	NASDAQ	4:00	Citadel Securities LLC	6
NGA	NORTHERN GENESIS ACQUISITION CORP.	NGA	No	NYSE	4:00	Susquehanna Securities	6
NMRD	NEMAURA MEDICAL, INC.	NMRD	No	NASDAQ	4:00	Wolverine Trading LLC	6
NSCO	NESCO HOLDINGS INC	NSCO	No	NYSE	4:00	Wolverine Trading LLC	6
NSSC	Napco Security Technologies, Inc.	NSSC	No	NASDAQ	4:00	Susquehanna Securities	6

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OBSV	OBSEVA SA	OBSV	No	NASDAQ	4:00	Susquehanna Securities	7
OCX	ONCOCYTE CORP	OCX	No	AMEX	4:00	Susquehanna Securities	7
OEG	Orbital Energy Group, Inc.	OEG	No	NASDAQ	4:00	Citadel Securities LLC	7
OFC	Corporate Office Properties Trust	OFC	No	NYSE	4:00	Wolverine Trading LLC	7
OGE	OGE ENERGY CORP.	OGE	No	NYSE	4:00	Susquehanna Securities	7
OGIG	OSHARES GLOBAL INTERNET GIANTS ETF	OGIG	No	BATS	4:00	Citadel Securities LLC	7
OMCL	OMNICELL, INC	OMCL	No	NASDAQ	4:00	Wolverine Trading LLC	7
OMP	OASIS MIDSTREAM PARTNERS LP	OMP	No	NASDAQ	4:00	Citadel Securities LLC	7
ONCS	ONCOSEC MEDICAL INCORPORATED	ONCS	No	NASDAQ	4:00	Citadel Securities LLC	7
ONCT	ONCTERNAL THERAPEUTICS, INC.	ONCT	No	NASDAQ	4:00	Susquehanna Securities	7
OPTT	OCEAN POWER TECHNOLOGIES, INC.	OPTT	No	NASDAQ	4:00	Wolverine Trading LLC	7
ORAN	Orange	ORAN	No	NYSE	4:00	Wolverine Trading LLC	7
ORCC	OWL ROCK CAPITAL CORP	ORCC	No	NYSE	4:00	Citadel Securities LLC	7
ORGO	ORGANOGENESIS HOLDINGS, INC.	ORGO	No	NASDAQ	4:00	Citadel Securities LLC	7
OSG	Overseas Shipholding Group, Inc.	OSG	No	NYSE	4:00	Citadel Securities LLC	7
OSH	OAK STREET HEALTH INC	OSH	No	NYSE	4:00	Wolverine Trading LLC	7
OXSQ	Oxford Square Capital Corporation	OXSQ	No	NASDAQ	4:00	Morgan Stanley	7
PAVE	GLOBAL X US INFRASTRUCTURE DEVEL	PAVE	No	BATS	4:00	Susquehanna Securities	7
PAYA	PAYA HOLDINGS INC	PAYA	No	NASDAQ	4:00	Wolverine Trading LLC	7
PDBC	INVESCO OPTIMUM YIELD DIVER STARTEGY NO K-1 ETF	PDBC	No	NASDAQ	4:00	Wolverine Trading LLC	7
PDM	Piedmont Office Realty Trust Inc.	PDM	No	NYSE	4:00	Wolverine Trading LLC	7
PGRE	Paramount Group Inc.	PGRE	No	NYSE	4:00	Susquehanna Securities	7
PHR	PHREESIA, INC.	PHR	No	NYSE	4:00	Wolverine Trading LLC	7
PLG	PLATINUM GROUP METALS LTD.	PLG	No	AMEX	4:00	Wolverine Trading LLC	7

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PLL	PIEDMONT LITHIUM LTD	PLL	No	NASDAQ	4:00	Wolverine Trading LLC	7
PLSE	Pulse Biosciences, Inc.	PLSE	No	NASDAQ	4:00	Susquehanna Securities	7
PLTK	PLAYTIKA HOLDING CORP.	PLTK	No	NASDAQ	4:00	Susquehanna Securities	7
PNNT	PennantPark Investment Corp	PNNT	No	NASDAQ	4:00	Morgan Stanley	7
POWW	AMMO INC	POWW	No	NASDAQ	4:00	Susquehanna Securities	7
PPBT	Purple Biotech Ltd.	PPBT	No	NASDAQ	4:00	Susquehanna Securities	7
PRCH	PORCH GROUP, INC.	PRCH	No	NASDAQ	4:00	Citadel Securities LLC	7
PROF	PROFOUND MEDICAL CORP	PROF	No	NASDAQ	4:00	Susquehanna Securities	7
PROG	PROGENITY INC	PROG	No	NASDAQ	4:00	Susquehanna Securities	7
PS	Pluralsight Inc	PS	No	NASDAQ	4:00	Susquehanna Securities	7
PSAC	PROPERTY SOLUTIONS ACQUISITION CORP.	PSAC	No	NASDAQ	4:00	Susquehanna Securities	7
PSNL	PERSONALIS, INC.	PSNL	No	NASDAQ	4:00	Citadel Securities LLC	7
PTR	PETROCHINA COMPANY LTD.	PTR	No	NYSE	4:00	Wolverine Trading LLC	7
QCLN	FIRST TRUST NASDAQ CLEAN EDGE GREEN	QCLN	No	NASDAQ	4:00	Susquehanna Securities	7
QELL	QELL ACQUISITION CORPORATION	QELL	No	NASDAQ	4:00	Citadel Securities LLC	7
QFIN	360 DIGITECH, INC.	QFIN	No	NASDAQ	4:00	Wolverine Trading LLC	7
QLGN	QUALIGEN THERAPEUTICS, INC.	QLGN	No	NASDAQ	4:00	Citadel Securities LLC	7
QQQJ	INVESCO NASDAQ NEXT GEN 100 ETF	QQQJ	No	NASDAQ	4:00	Citadel Securities LLC	7
RAPT	RAPT THERAPEUTICS, INC.	RAPT	No	NASDAQ	4:00	Susquehanna Securities	7
RAVN	Raven Industries, Inc.	RAVN	No	NASDAQ	4:00	Citadel Securities LLC	7
REKR	REKOR SYSTEMS, INC.	REKR	No	NASDAQ	4:00	Citadel Securities LLC	7
REPH	Recro Pharma, Inc.	REPH	No	NASDAQ	4:00	Susquehanna Securities	7
REPL	REPLIMUNE GROUP, INC.	REPL	No	NASDAQ	4:00	Susquehanna Securities	7
REYN	REYNOLDS CONSUMER PRODUCTS	REYN	No	NASDAQ	4:00	Wolverine Trading LLC	7
RFIL	RF Industries, Ltd.	RFIL	No	NASDAQ	4:00	Susquehanna Securities	7

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
RILY	B Riley Financial Inc	RILY	No	NASDAQ	4:00	Citadel Securities LLC	7
RKDA	ARCADIA BIOSCIENCES, INC.	RKDA	No	NASDAQ	4:00	Susquehanna Securities	7
RMNI	RIMINI STREET, INC.	RMNI	No	NASDAQ	4:00	Wolverine Trading LLC	7
RNLX	RENALYTIX AI PLC ADR	RNLX	No	NASDAQ	4:00	Wolverine Trading LLC	7
ROAD	CONSTRUCTION PARTNERS, INC	ROAD	No	NASDAQ	4:00	Wolverine Trading LLC	7
ROOT	ROOT, INC. DELAWARE	ROOT	No	NASDAQ	4:00	Citadel Securities LLC	7
RPLA	REPLAY ACQUISITION CORP.	RPLA	No	NYSE	4:00	Wolverine Trading LLC	7
RPRX	ROYALTY PHARMA PLC	RPRX	No	NASDAQ	4:00	Susquehanna Securities	7
RPT	RPT Realty	RPT	No	NYSE	4:00	Citadel Securities LLC	7
RSI	Rush Street Interactive, Inc.	RSI	No	NYSE	4:00	Wolverine Trading LLC	7
RUBY	RUBIUSTHERAPEUTICS, INC	RUBY	No	NASDAQ	4:00	Susquehanna Securities	7
SCYX	SCYNEXIS, Inc.	SCYX	No	NASDAQ	4:00	Susquehanna Securities	8
SD	SandRidge Energy, Inc.	SD	No	NYSE	4:00	Susquehanna Securities	8
SDIV	Global X SuperDividend ETF	SDIV	No	NYSE ARCA	4:00	Wolverine Trading LLC	8
SECO	SECOO HOLDING LTD.	SECO	No	NASDAQ	4:00	Susquehanna Securities	8
SFE	SafeguardScientifics, Inc.	SFE	No	NYSE	4:00	Wolverine Trading LLC	8
SFT	Shift Technologies, Inc.	SFT	No	NASDAQ	4:00	Susquehanna Securities	8
SI	SILVERGATE CAPITAL CORP.	SI	No	NYSE	4:00	Wolverine Trading LLC	8
SIEB	Siebert Financial Corp	SIEB	No	NASDAQ	4:00	Citadel Securities LLC	8
SIFY	Sify Technologies Ltd.	SIFY	No	NASDAQ	4:00	Susquehanna Securities	8
SLS	SELLAS LIFE SCIENCES GROUP, INC.	SLS	No	NASDAQ	4:00	Susquehanna Securities	8
SNPR	TORTOISE ACQUISITION CORPORATION II	SNPR	No	NYSE	4:00	Wolverine Trading LLC	8
SOI	Solaris Oilfield Infrastructure, Inc.	SOI	No	NYSE	4:00	Wolverine Trading LLC	8
SOS	SOS Limited	SOS	No	NYSE	4:00	Wolverine Trading LLC	8

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
SPAK	DEFIANCE NEXT GEN SPAC DERIVED ETF	SPAK	No	NYSE ARCA	4:00	Susquehanna Securities	8
SPCX	SPAC and New Issue ETF	SPCX	No	NYSE Arca	4:00	Wolverine Trading LLC	8
SPI	SPI ENERGY CO LTD	SPI	No	NASDAQ	4:00	Wolverine Trading LLC	8
SPNS	Sapiens International Corporation NV	SPNS	No	NASDAQ	4:00	Wolverine Trading LLC	8
SPRO	Spero Therapeutics Inc	SPRO	No	NASDAQ	4:00	Citadel Securities LLC	8
SRAC	STABLE ROAD ACQUISITION CORP	SRAC	No	NASDAQ	4:00	Morgan Stanley	8
SRAX	SRAX, Inc.	SRAX	No	NASDAQ	4:00	Susquehanna Securities	8
SSB	South State Corporation	SSB	No	NASDAQ	4:00	Wolverine Trading LLC	8
STIC	NORTHERN STAR ACQUISITION CORP.	STIC	No	NYSE	4:00	Wolverine Trading LLC	8
STPK	STAR PEAK ENERGY TRANSITION CORP	STPK	No	NYSE	4:00	IMC Financial Markets	8
STRO	SUTRO BIOPHARMA, INC.	STRO	No	NASDAQ	4:00	Citadel Securities LLC	8
SUMO	SUMO LOGIC, INC.	SUMO	No	NASDAQ	4:00	Wolverine Trading LLC	8
SUNW	SUNWORKS, INC.	SUNW	No	NASDAQ	4:00	Morgan Stanley	8
SVM	SILVERCORP METALS INC	SVM	No	AMEX	4:00	Citadel Securities LLC	8
SWI	Solarwinds Corp.	SWI	No	NYSE	4:00	Wolverine Trading LLC	8
SWM	Schweitzer-Mauduit International, Inc	SWM	No	NYSE	4:00	Susquehanna Securities	8
SYBX	SYNLOGIC INC	SYBX	No	NASDAQ	4:00	Susquehanna Securities	8
TCF	TCF Financial Corporation	TCF	No	NASDAQ	4:00	Susquehanna Securities	8
TCON	TRACON PHARMACEUTICALS, INC.	TCON	No	NASDAQ	4:00	Susquehanna Securities	8
TDW	Tidewater, Inc	TDW	No	NYSE	4:00	Susquehanna Securities	8
TG	Tredegar Corp	TG	No	NYSE	4:00	Citadel Securities LLC	8
THBR	THUNDER BRIDGE ACQUISTION	THBR	No	NASDAQ	4:00	Citadel Securities LLC	8
TLS	TELOS CORPORATION	TLS	No	NASDAQ	4:00	Wolverine Trading LLC	8
TLSA	TIZIANA LIFE SCIENCES PLC	TLSA	No	NASDAQ	4:00	Citadel Securities LLC	8

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
TMQ	Trilogy Metals Inc.	TMQ	No	AMEX	4:00	Wolverine Trading LLC	8
TPGY	TPG PACE BENEFICIAL FINANCE CORPORATION	TPGY	No	NYSE	4:00	Citadel Securities LLC	8
TR	Tootsie Roll Industries Inc	TR	No	NYSE	4:00	Citadel Securities LLC	8
TRIT	Triterras, Inc.	TRIT	No	NASDAQ	4:00	Susquehanna Securities	8
TSQ	Townsquare Media, Inc.	TSQ	No	NYSE	4:00	Citadel Securities LLC	8
TTCF	Tattooed Chef, Inc.	TTCF	No	NASDAQ	4:00	Wolverine Trading LLC	8
TTEC	TTEC Holdings, Inc.	TTEC	No	NASDAQ	4:00	Citadel Securities LLC	8
TTNP	Titan Pharmaceuticals Inc.	TTNP	No	NASDAQ	4:00	Citadel Securities LLC	8
TURN	180 Degree Capital Corporation	TURN	No	NASDAQ	4:00	Susquehanna Securities	8
TUSK	Mammoth Energy Services Inc	TUSK	No	NASDAQ	4:00	Citadel Securities LLC	8
TZOO	Travelzoo	TZOO	No	NASDAQ	4:00	Wolverine Trading LLC	8
UBA	Urstadt Biddle Properties Inc	UBA	No	NYSE	4:00	Citadel Securities LLC	9
UPST	UPSTART HOLDINGS, INC.	UPST	No	NASDAQ	4:00	Wolverine Trading LLC	9
USAT	USA Technologies Inc.	USAT	No	NASDAQ	4:00	Citadel Securities LLC	9
UWMC	UWM Holdings Corporation	UWMC	No	NYSE	4:00	Citadel Securities LLC	9
VBK	Vanguard Small-Cap Growth ETF	VBK	No	NYSE ARCA	4:00	Wolverine Trading LLC	9
VGAC	VG ACQUISITION CORPORATION	VGAC	No	NYSE	4:00	IMC Financial Markets	9
VGT	Vanguard Information Technology ETF	VGT	No	NYSE Arca	4:00	Wolverine Trading LLC	9
VIE	VIELA BIO, INC.	VIE	No	NASDAQ	4:00	Susquehanna Securities	9
VIH	VPC IMPACT ACQUISITION HOLDINGS	VIH	No	NASDAQ	4:00	Wolverine Trading LLC	9
VITL	VITAL FARMS, INC.	VITL	No	NASDAQ	4:00	Susquehanna Securities	9
VIV	Telefonica Brasil S.A.	VIV	No	NYSE	4:00	Citadel Securities LLC	9
VNT	VONTIER CORP	VNT	No	NYSE	4:00	Wolverine Trading LLC	9
VRM	VROOM INC.	VRM	No	NASDAQ	4:00	Wolverine Trading LLC	9

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing Time	PLMM	Cloud
VSPR	VESPER HEALTHCARE ACQUISITION CORP	VSPR	No	NASDAQ	4:00	Wolverine Trading LLC	9
VVPR	VIVOPOWER INTERNATIONAL PLC	VVPR	No	NASDAQ	4:00	Citadel Securities LLC	9
WAFD	WASHINGTON FEDERAL INC.	WAFD	No	NASDAQ	4:00	Wolverine Trading LLC	10
WIMI	WIMI HOLOGRAM CLOUD INC	WIMI	No	NASDAQ	4:00	Citadel Securities LLC	10
WLL	WHITING PETROLEUM CORPORATION	WLL	No	NYSE	4:00	Susquehanna Securities	10
WNS	WNS Holdings Ltd	WNS	No	NYSE	4:00	Citadel Securities LLC	10
WOOF	PETCO HEALTH AND WELLNESS COMPANY, INC.	WOOF	No	NASDAQ	4:00	Susquehanna Securities	10
XPEL	XPEL, INC.	XPEL	No	NASDAQ	4:00	Citadel Securities LLC	10
ZDGE	ZEDGE INC	ZDGE	No	AMEX	4:00	Susquehanna Securities	11
ZI	ZOOMINFO TECHNOLOGIES INC.	ZI	No	NASDAQ	4:00	IMC Financial Markets	11

Please contact MIAX Options Listings with any questions.

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