



The option classes listed below will begin trading on the MIAX Pearl Exchange at the start of trading on **Thursday, October 21, 2021**. All option classes on MIAX Pearl have an allocation style of Price-Time and billing style of Maker-Taker.

| Security Symbol | Security Name                           | Option Class | Penny Pilot | Exchange for Opening | Closing Time | Cloud |
|-----------------|---|--------------|-------------|----------------------|--------------|-------|
| AFIB            | ACUTUS MEDICAL INC                      | AFIB         | No          | NASDAQ               | 4:00         | 1     |
| AGL             | AGILON HEALTH INC                       | AGL          | No          | NYSE                 | 4:00         | 1     |
| AGM             | Federal Agricultural Mortgage Corp.     | AGM          | No          | NYSE                 | 4:00         | 1     |
| AMBP            | Ardagh Metal Packaging S.A.             | AMBP         | No          | NYSE                 | 4:00         | 1     |
| ASLE            | AERSALE CORPORATION                     | ASLE         | No          | NASDAQ               | 4:00         | 1     |
| BCDA            | BIOCARDIA, INC                          | BCDA         | No          | NASDAQ               | 4:00         | 2     |
| BITO            | ProShares Bitcoin Strategy ETF          | BITO         | No          | NYSE Arca            | 4:00         | 2     |
| BROS            | DUTCH BROS INC.                         | BROS         | No          | NYSE                 | 4:00         | 2     |
| BRSP            | BrightSpire Capital, Inc.               | BRSP         | No          | NYSE                 | 4:00         | 2     |
| CEI             | CAMBER ENERGY, INC.                     | CEI          | No          | AMEX                 | 4:00         | 2     |
| CLNN            | CLENE INC                               | CLNN         | No          | NASDAQ               | 4:00         | 2     |
| COUR            | COURSERA, INC.                          | COUR         | No          | NYSE                 | 4:00         | 2     |
| CPNG            | COUPANG INC                             | CPNG         | No          | NYSE                 | 4:00         | 2     |
| CURV            | TORRID HOLDINGS INC.                    | CURV         | No          | NYSE                 | 4:00         | 2     |
| CXM             | SPRINKLR, INC.                          | CXM          | No          | NYSE                 | 4:00         | 2     |
| CYCC            | CYCLACEL PHARMACEUTICALS, INC.          | CYCC         | No          | NASDAQ               | 4:00         | 2     |
| DAVA            | ENDAVAL PLC                             | DAVA         | No          | NYSE                 | 4:00         | 3     |
| DOCN            | DIGITALOCEAN HOLDINGS, INC.             | DOCN         | No          | NYSE                 | 4:00         | 3     |
| DOLE            | DOLE PLS                                | DOLE         | No          | NYSE                 | 4:00         | 3     |
| ECHO            | Echo Global Logistics, Inc.             | ECHO         | No          | NASDAQ               | 4:00         | 3     |
| EDV             | VANGUARD EXTENDED DURATION TREASURY ETF | EDV          | No          | NYSE Arca            | 4:00         | 3     |

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|                 |                                   |              |             |                      | Time    |       |
| ENVB            | ENVERIC BIOSCIENCES, INC.         | ENVB         | No          | NASDAQ               | 4:00    | 3     |
| FCF             | First Commonwealth Financial Corp | FCF          | No          | NYSE                 | 4:00    | 3     |
| FIGS            | FIGS, INC.                        | FIGS         | No          | NYSE                 | 4:00    | 3     |
| FKWL            | FRANKLIN WIRELESS CORP.           | FKWL         | No          | NASDAQ               | 4:00    | 3     |
| FRSH            | FRESHWORKS INC                    | FRSH         | No          | NASDAQ               | 4:00    | 3     |
| FTCV            | FINTECH ACQUISITION CORP          | FTCV         | No          | NASDAQ               | 4:00    | 3     |
| FTRP            | FIELD TRIP HEALTH LTD             | FTRP         | No          | NASDAQ               | 4:00    | 3     |
| GLBE            | GLOBAL ONLINE LTD                 | GLBE         | No          | NASDAQ               | 4:00    | 4     |
| GLMD            | GALMED PHARMACEUTICALS LTD.       | GLMD         | No          | NASDAQ               | 4:00    | 4     |
| GWH             | ESS Tech, Inc.                    | GWH          | No          | NYSE                 | 4:00    | 4     |
| GXO             | GXO LOGISTICS INC                 | GXO          | No          | NYSE                 | 4:00    | 4     |
| HBIO            | Harvard Bioscience, Inc.          | HBIO         | No          | NASDAQ               | 4:00    | 4     |
| HONE            | HARBORONE BANCORP INC             | HONE         | No          | NASDAQ               | 4:00    | 4     |
| HTOO            | FUSION FUEL GREEN PLC             | HTOO         | No          | NASDAQ               | 4:00    | 4     |
| IDA             | IDACORP, INC.                     | IDA          | No          | NYSE                 | 4:00    | 5     |
| IMMP            | IMMUTEPT LTD                      | IMMP         | No          | NASDAQ               | 4:00    | 5     |
| ISUN            | ISUN, INC.                        | ISUN         | No          | NASDAQ               | 4:00    | 5     |
| KRBP            | KIROMICBIOPHARMA, INC.            | KRBP         | No          | NASDAQ               | 4:00    | 5     |
| KRYS            | KRYSTAL BIOTECH, INC.             | KRYS         | No          | NASDAQ               | 4:00    | 5     |
| LMB             | LIMBACH HOLDINGS, INC.            | LMB          | No          | NASDAQ               | 4:00    | 5     |
| LWLG            | LIGHTWAVE LOGIC, INC.             | LWLG         | No          | NASDAQ               | 4:00    | 5     |
| NAPA            | DUCKHORN PORTFOLIO, INC.          | NAPA         | No          | NYSE                 | 4:00    | 6     |
| NEON            | NEONODE INC.                      | NEON         | No          | NASDAQ               | 4:00    | 6     |
| NEXT            | NEXTDECADE CORP.                  | NEXT         | No          | NASDAQ               | 4:00    | 6     |

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|                 |                                      |              |             |                      | Time    |       |
| NSPR            | INSPIREMD, INC.                      | NSPR         | No          | NASDAQ               | 4:00    | 6     |
| NXTD            | Nxt-ID, Inc.                         | NXTD         | No          | NASDAQ               | 4:00    | 6     |
| OIL             | IPATH PURE BETA CRUDE OIL ETN        | OIL          | No          | NYSE Arca            | 4:00    | 7     |
| ONON            | ON HOLDING AG CLASS A                | ONON         | No          | NYSE                 | 4:00    | 7     |
| ONTX            | ONCONOVA THERAPEUTICS INC.           | ONTX         | No          | NASDAQ               | 4:00    | 7     |
| OSCR            | OSCAR HEALTH INC.                    | OSCR         | No          | NYSE                 | 4:00    | 7     |
| PATH            | UIPATH INC                           | PATH         | No          | NYSE                 | 4:00    | 7     |
| PSCE            | INVESCO S&P SMALLCAP ENERGY ETF      | PSCE         | No          | NASDAQ               | 4:00    | 7     |
| PTGX            | PROTAGONIST THERAPEUTICS, INC.       | PTGX         | No          | NASDAQ               | 4:00    | 7     |
| PWSC            | POWERSCHOOL HOLDINGS INC             | PWSC         | No          | NYSE                 | 4:00    | 7     |
| QADA            | QAD Inc.                             | QADA         | No          | NASDAQ               | 4:00    | 7     |
| QUBT            | QUANTUM COMPUTING INC.               | QUBT         | No          | NASDAQ               | 4:00    | 7     |
| RAAS            | CLOOPEN GROUP HOLDING LTD.           | RAAS         | No          | NYSE                 | 4:00    | 7     |
| RCAT            | RED CAT HOLDINGS, INC.               | RCAT         | No          | NASDAQ               | 4:00    | 7     |
| RCMT            | RCM Technologies, Inc.               | RCMT         | No          | NASDAQ               | 4:00    | 7     |
| RKLY            | Rockley Photonics Holdings Limited   | RKLY         | No          | NYSE                 | 4:00    | 7     |
| SBTX            | SILVERBACK THERAPEUTICS, INC.        | SBTX         | No          | NASDAQ               | 4:00    | 8     |
| SNCY            | SUN COUNTRY AIRLINES HOLDINGS, INC.  | SNCY         | No          | NASDAQ               | 4:00    | 8     |
| SPHB            | Invesco S&P 500 High Beta ETF        | SPHB         | No          | NYSE Arca            | 4:00    | 8     |
| SPOK            | Spok Holdings, Inc.                  | SPOK         | No          | NASDAQ               | 4:00    | 8     |
| TBBK            | Bancorp Inc/DE                       | TBBK         | No          | NASDAQ               | 4:00    | 8     |
| TOST            | TOAST, INC                           | TOST         | No          | NYSE                 | 4:00    | 8     |
| UAMY            | US Antimony Corp.                    | UAMY         | No          | AMEX                 | 4:00    | 9     |
| URNM            | NORTHSHORE GLOBAL URANIUM MINING ETF | URNM         | No          | NYSE Arca            | 4:00    | 9     |



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| VINO            | GAUCHO GROUP HOLDINGS, INC. | VINO         | No          | NASDAQ               | 4:00    | 9     |
| VRNA            | VERONA PHARMA PLC           | VRNA         | No          | NASDAQ               | 4:00    | 9     |
| VSCO            | VICTORIAS SECRET & CO       | VSCO         | No          | NYSE                 | 4:00    | 9     |
| VZIO            | VIZIO HOLDING CORP          | VZIO         | No          | NYSE                 | 4:00    | 9     |
| WEBR            | WEBER, INC.                 | WEBR         | No          | NYSE                 | 4:00    | 10    |
| WKSP            | WORKSPORT, LTD              | WKSP         | No          | NASDAQ               | 4:00    | 10    |
| WWD             | Woodward, Inc.              | WWD          | No          | NASDAQ               | 4:00    | 10    |
| WYY             | WIDEPOINT CORPORATION       | WYY          | No          | AMEX                 | 4:00    | 10    |
| YALA            | YALLA GROUP LIMITED         | YALA         | No          | NYSE                 | 4:00    | 10    |
| YSG             | YATSEN HOLDING LTD.         | YSG          | No          | NYSE                 | 4:00    | 10    |

Please contact MIAX Options Listings with any questions.

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