

**AMENDMENT TO PLAN FOR THE PURPOSE OF DEVELOPING AND IMPLEMENTING PROCEDURES  
DESIGNED TO FACILITATE THE LISTING AND TRADING OF STANDARDIZED OPTIONS SUBMITTED  
PURSUANT TO SECTION 11A(a)(3)(B) OF THE SECURITIES EXCHANGE ACT OF 1934**

**PLAN FOR THE PURPOSE OF DEVELOPING AND  
IMPLEMENTING PROCEDURES DESIGNED TO  
FACILITATE THE LISTING AND TRADING OF  
STANDARDIZED OPTIONS SUBMITTED PURSUANT  
TO SECTION 11A(a)(3)(B) OF THE SECURITIES  
EXCHANGE ACT OF 1934**

The undersigned national securities exchanges and The Options Clearing Corporation hereby submit to the Securities and Exchange Commission (the “SEC”), the following plan providing for procedures designed to facilitate the listing and trading of standardized option contracts on each of the exchanges. The undersigned seek the approval of the SEC for the plan and hereby request that the SEC issue an order pursuant to Section 11A(a)(3)(B) of the Securities Exchange Act of 1934 and Rule 11Aa3-2 thereunder evidencing such approval.

## **OPTIONS LISTING PROCEDURES PLAN**

### **1. Selection of an Option Class—**

- a) A registered options exchange, that is also a Sponsor of this Plan, which seeks to trade an option on an equity security (the “Selecting Exchange”) must notify The Options Clearing Corporation (“OCC”) of its selection through the submission of a Certificate no earlier than 12:01 a.m. and no later than 11:00 a.m. (Chicago time) on the trading day before the trading day on which the Selecting Exchange wishes to commence trading options on such equity security. (A “trading day” means a day on which the U.S. securities markets are open for business.) Such Certificate shall state that pursuant to Rule 12d1-3 of the Securities Exchange Act of 1934 (“the Act”) the Selecting Exchange certifies that put and call option contracts issued by OCC on the selected underlying security have been approved by the Selecting Exchange for listing and trading. Any Certificate received after 11:00 a.m. (Chicago time) shall be disregarded and have no effect.
- b) For an option class that (1) is not currently trading on another registered options exchange; or (2) has not been previously certified for listing and trading on any registered options exchange, the Selecting Exchange shall provide to OCC at the time it submits its Certificate, the options symbol, initial exercise prices, expiration cycle and the position and exercise limits for the selected option class. The Certificate shall also state the complete name of the underlying security and its CUSIP number. From among all the Certificates received by OCC before 11:00 a.m. (Chicago time) for a specific selected option class, OCC shall determine which Certificate was submitted first. The initial exercise prices, the expiration cycle and position and exercise limits<sup>1</sup> for the selected option class shall be as provided in the Certificate that OCC determined to be the first submitted.
- c) By 1:00 p.m. (Chicago time) or as soon as practical thereafter on the trading day OCC receives Certificate(s) from Selecting Exchange(s), OCC (1) will, for each option class covered by such Certificate(s) and processed by OCC, make publically available on the OCC website the underlying security name, option symbol, and all registered option

---

<sup>1</sup> OCC will compare the position and exercise limits for the selected option class indicated on each Certificate submitted. If there is a discrepancy among any of the position and exercise limits submitted by the Selecting Exchanges, OCC will contact the Selecting Exchanges in order to eliminate any discrepancy. If a discrepancy remains unresolved, OCC will use the higher limits.

exchanges eligible to trade such option class, and (2) will notify all Plan Sponsors that the list of options classes covered by such Certificate(s) is available on the OCC website.

- d) For each option class certified pursuant to (b) above and each option class previously certified for listing that is currently trading on at least one other registered options exchange, the Selecting Exchange(s) may begin trading the selected option class on the first trading day after the Certificate(s) have been submitted to and processed by the OCC.
- e) A Selecting Exchange may withdraw a Certificate previously submitted under paragraph (a) above on the trading day such Certificate is submitted by notifying OCC of such withdrawal up until the time OCC has issued its notification to the Plan Sponsors under paragraph (c) above. Thereafter, if OCC receives notice from a Selecting Exchange that it is withdrawing its Certificate to list and trade the selected option, OCC shall notify all Plan Sponsors as soon as practical of such withdrawal. A Selecting Exchange that has withdrawn a Certificate to list and trade a selected option class shall maintain, in a readily accessible file, a list specifying the reason for each withdrawal.

## **2. Petition to Review the Eligibility of a New Option Class--**

- a) Any registered options exchange may petition the OCC to review whether a selected option class was eligible on the date the selected option class was initially certified for listing and trading by a Selecting Exchange(s). The Petition for Review may be submitted at any time after the selected option class has been certified, but not later than 3:00 p.m. (Chicago time) on the day the selected option class begins trading on the Selecting Exchange. The Petition must state which listing guideline(s) or standard(s) the Petitioning Exchange is requesting the OCC to review. OCC shall promptly, but not later than 4:00 p.m. (Chicago time), provide a copy of the Petition to the Selecting Exchange on the day the selected option class begins trading. The Selecting Exchange may continue trading the selected option class until OCC has issued a determination that the selected option is ineligible. The Petitioning Exchange and the Selecting Exchange shall submit written support for their claims of eligibility or ineligibility to the OCC by 3:00 p.m. (Chicago time) on the first trading day after the selected option class begins trading.
- b) At the earliest possible time after receiving these written submissions, OCC will complete its review pursuant to the Petition and will notify all parties to this Plan of its determination regarding the eligibility of the selected option class. OCC will endeavor in good faith to

complete its review and notify the parties of its determination no later than 4:00 p.m. (Chicago time) on the second trading day after the selected option class begins trading. If OCC needs additional time to complete its review pursuant to the Petition, OCC will notify the Petitioning and Selecting Exchanges of the additional time needed, which shall not exceed five trading days from the receipt of the written support from the Petitioning and Selecting Exchanges. If a non-Selecting Exchange determines to submit a Certification for the selected option class that is the subject of a pending Petition, the options symbol, initial exercise prices, the expiration cycle and position and exercise limits established for the selected option class will continue to be used.

- c) If OCC deems a selected option class to be ineligible for trading, the Selecting Exchange(s) shall, beginning on the first trading day after the determination, delist any option series without open interest and allow closing transactions only in any series with open interest. No additional option series can be added and the option class will be delisted when no open interest remains. If an ineligible option class subsequently becomes eligible, any exchange, including the Selecting and Petitioning Exchanges, may submit a Certificate to OCC pursuant to the procedures set forth in Paragraph 1. above.
- d) A selected option class will be deemed eligible by OCC only if it meets the listing standards for underlying securities of the Selecting Exchange that were identified in the Petition for Review as in effect on the date the Selecting Exchange submitted its Certificate to OCC. OCC may employ law firms, accounting firms or other agents in the course of its review of the petition. OCC may perform the review as it, in its sole discretion, deems appropriate to resolve the review within the time limits prescribed above. OCC shall have the right to request additional information as to the eligibility or ineligibility of the selected option class from the Petitioning or Selecting Exchange(s) and to independently verify the information received.
- e) It is expressly understood and agreed that, because OCC is to be the issuer of any selected option class, it may independently decline to issue or clear an option on an underlying security that is not currently a “covered security” as that term is defined in Section 18(b)(1)(A) of the Securities Act of 1933. OCC may, in its sole discretion, assess against the Petitioning Exchange if the option class is deemed to be eligible or Selecting Exchange

if the option class is deemed to be ineligible, the total reasonable cost of any outside services or staff time allocated to reviewing a petition.

3. **Selection of a New Option Series**— A registered options exchange which has begun or seeks to trade additional series of an option class it has previously listed and currently trades (the “Series Selecting Exchange”), shall comply with the following notification provisions and restrictions on adding additional series:

- (a) If the Series Selecting Exchange has begun trading the new series on the same day (“intra-day add-on series”), it shall notify by electronic mail (“e-mail”) OCC within, under normal circumstances, 10 minutes of commencing to trade the series, but in no case any earlier than 8 a.m. (Chicago time). The Series Selecting Exchange simultaneously shall send a copy of this e-mail to each other option exchange also trading the same option class;
- (b) If the Series Selecting Exchange has determined to trade the new series on either the next trading day or a trading day thereafter, it shall notify by e-mail OCC by, under normal circumstances, 4:15 p.m. (Chicago time) of the new option series to be traded. The Series Selecting Exchange simultaneously shall send a copy of this e-mail to each other exchange that trades the same option class; and
- (c) For series involving new expiration months the foregoing procedures shall not apply and the following procedures shall apply instead:
  - (i) **Preliminary Notification** — each exchange will provide by e-mail to OCC by 9:00 a.m. (Chicago time) on the second trading day prior to expiration (usually a Thursday) a preliminary notification of those new expiration month series it intends to trade. The Series Selecting Exchange simultaneously shall send a copy of this e-mail to each other exchange that trades the same option class; and
  - (ii) **Notification** — For the new expiration month series, each exchange shall provide by e-mail to OCC by 2:00 p.m. (Chicago time) on or before the trading day prior to the options' expiration the final notification of those new expiration month series it intends to trade. The Series Selecting Exchange simultaneously shall send a copy of this e-mail to each other exchange that trades the same option class.
- (d) In conjunction with the adding of new option series and the melding of LEAP series into near-term series, the Series Selecting Exchange and any other exchange that lists and

trades the same option class are authorized to jointly determine, when necessary, the symbol and/or trading codes for the proposed new series.

- (e) With regard to the listing of new January Long-term Equity Anticipation (“LEAP”) series on equity option classes, options on Exchange Traded Funds (“ETF”), or options on Trust Issued Receipts (“TIR”), the Series Selecting Exchange and any other exchange that lists and trades the same option class shall not add new LEAP series on that option class earlier than the Monday prior to the September expiration (which is 28 months before the expiration).

Exchanges that list and trade the same equity option class, ETF option class, or TIR option class are authorized to jointly determine and coordinate with OCC on the date of introduction of new LEAP series for that option class consistent with the above paragraph.

- (f) The Series Selecting Exchange shall not list new LEAP series on equity option classes, options on ETFs, or options on TIRs in a new expiration year if the national average daily contract volume, excluding LEAP and FLEX series, for that options class during the preceding three calendar months is less than 1,000 contracts, unless the new LEAP series has an expiration year that has already been listed on another exchange for that option class. The preceding volume threshold does not apply during the first six months an equity option class, option on an ETF, or option on a TIR is listed on any exchange.
- (g) With regard to the listing of new series on equity option classes, options on ETFs, and options on TIRs, the exercise price of each option series listed by a Series Selecting Exchange shall be fixed at a price per share which is reasonably close to the price of the underlying equity security, ETF, or TIR at or about the time the Series Selecting Exchange determines to list such series. Additionally,
  - (i) **Exercise Price Range Limitations** — Except as provided in subparagraphs (ii) through (iv) below, if the price of the underlying security is less than or equal to \$20, the Series Selecting Exchange shall not list new option series with an exercise price more than 100% above or below the price of the underlying security. However, the foregoing restriction shall not prohibit the listing of at least three exercise prices per expiration month in an option class. If the price of the underlying security is greater than \$20, the Series Selecting Exchange shall not list new option series with an exercise price more than 50% above or below the price of the underlying security.

The price of the underlying security is measured by: (1) for intra-day add-on series and next-day series additions, the daily high and low of all prices reported by all national securities exchanges; (2) for new expiration months, the daily high and low of all prices reported by all national securities exchanges on the day the Series Selecting Exchange determines its preliminary notification of new series; (3) for option series to be added as a result of pre-market trading, the most recent share price reported by all national securities exchanges between 7:45 a.m. and 8:30 a.m. (Chicago time); and (4) for option series to be added based on trading following regular trading hours, the most recent share price reported by all national securities exchanges between 3:15 p.m. and 5:00 p.m. (Chicago Time).

- (ii) The series exercise price range limitations contained in subparagraph (i) above do not apply with regard to: (1) the listing of \$1 strike prices in option classes participating in the \$1 Strike Program. Instead, the Series Selecting Exchange shall be permitted to list \$1 strike prices to the fullest extent as permitted under its rules for the \$1 Strike Program; or (2) the listing of series of Flexible Exchange Options.
- (iii) Each Series Selecting Exchange can designate up to five option classes to which the series exercise price range may be up to 100% above and below the price of the underlying security (which underlying security price shall be determined in accordance with subparagraph (i) above). Such designations shall be made on an annual basis and shall not be removed during the calendar year unless the option class is delisted by the designating exchange, in which case the designating exchange may designate another option class to replace the delisted class. If a designated option class is delisted by the designating exchange but continues to trade on at least one options exchange, the option class shall be subject to the limitations on listing new series set forth in subparagraph (i) above unless designated by another exchange.
- (iv) If a Series Selecting Exchange that has designated five option classes pursuant to subparagraph (iii) above requests that one or more additional option classes be excepted from the limitations on listing new series set forth in subparagraph (i) above, the additional option class(es) shall be so designated upon the unanimous consent of all exchanges that trade the option class(es). Additionally, pursuant to the request of a Series Selecting Exchange, the percentage range for the listing of new series may



be increased to more than 100% above and below the price of the underlying security for an option class, by the unanimous consent of all exchanges that trade the designated option class.

Exceptions for an additional class or for an increase of the exercise price range shall apply to all standard expiration months existing at the time of the vote, plus the next standard expiration month to be added, and also to any non-standard expirations that occur prior to the next standard monthly expiration.

- (v) The provisions of this subparagraph (g) shall not permit the listing of series that are otherwise prohibited by the rules of the Series Selecting Exchange or this Plan. To the extent the rules of the Series Selecting Exchange permit the listing of new series that are otherwise prohibited by the provisions of this Plan, the provisions of this Plan shall govern.
- (vi) An exchange can list an options series that is listed by another options exchange, provided that at the time such series was listed it was not prohibited under the provisions of this Plan or the rules of the exchange that initially listed the series.

### 3.1 **Selecting Option Classes for the Penny Interval Program (“Penny Program”)**

The registered options exchanges agree to list option classes for the Penny Program with the following minimum increment quoting requirements (“penny increments”):

- (A) one cent (\$0.01) for all series in QQQ (PowerShares QQQ TrustSM, Series 1), SPY (SPDR S&P 500 ETF) and IWM (iShares Russell 2000 Index Fund), regardless of price;
- (B) one cent (\$0.01) for all series in such option classes included in the Penny Program with a price of less than \$3.00;
- (C) five cents (\$0.05) for all series in such option classes included in the Penny Program with a price of \$3.00 or higher.

a) Initial Selection. On the first trading day of the third full calendar month after April 1, 2020, the Penny Program will apply only to the 363 most actively traded multiply listed option classes, based on OCC’s National Cleared Volume in the six full calendar months ending in the month of approval, that (i) currently quote in penny increments, or (ii) overlie securities

priced below \$200, or any index at an index level below \$200. Eligibility for inclusion in the Penny Program will be determined at the close of trading on the monthly Expiration Friday of the second full month following April 1, 2020.

b) Annual Review. Commencing in December 2020 and each December thereafter, OCC will rank all multiply listed option classes based on National Cleared Volume for the six full calendar months from June 1 through November 30 for determination of the most actively traded option classes.

(1) Addition to the Penny Program. Based on the Annual Review, any option class not in the Penny Program that is among the 300 most actively traded multiply listed option classes overlying securities priced below \$200, or an index at an index level below \$200, will be added to the Penny Program on the first trading day of January.

(2) Removal from the Penny Program. Except as provided in (c), (d), (e) and (f) below, based on the Annual Review, any option class in the Penny Program that falls outside the 425 most actively traded multiply listed option classes will be removed from the Penny Program on the first trading day of April.

c) Newly Listed Option Classes. A registered options exchange may add a newly listed option class to the Penny Program, provided that (i) it is among the 300 most actively traded multiply listed option classes, as ranked by National Cleared Volume at OCC, in its first full calendar month of trading and (ii) the underlying security is priced below \$200 or the underlying index is at an index level below \$200. Any option class added under this provision will be added on the first trading day of the month after it qualifies and will remain in the Penny Program for one full calendar year, after which it will be subject to the Annual Review stated in section (b) above.

d) Classes with Significant Growth in Activity. A registered options exchange may add any option class to the Penny Program, provided that (i) it is among the 75 most actively traded multiply listed option classes, as ranked by National Cleared Volume at OCC, in the past six full calendar months of trading and (ii) the underlying security is priced below \$200 or the underlying index is at an index level below \$200. Any option class added under this provision will be added on the first trading day of the second full month after it qualifies and will remain

in the Penny Program for the rest of the calendar year, after which it will be subject to the Annual Review stated in section (b) above.

e) **Corporate Actions.** If a corporate action involves one or more option classes in the Penny Program, all adjusted and unadjusted series of the option class will be included in the Penny Program. Any new option class added to the Penny Program under this provision will remain in the Penny Program for one full calendar year; after which it will be subject to the Annual Review stated in section (b) above.

f) **Delisted or Ineligible Option Classes.** Any series in an option class participating in the Penny Program in which the underlying security has been delisted, or are identified by OCC as ineligible for opening customer transactions, will continue to quote pursuant to the terms of the Penny Program until all such options have expired.

g) The registered options exchanges agree that references to multiply listed option classes in this section of the Plan only applies to option classes in the Penny Program, and to no other sections of the Plan.

h) Not sooner than 60 months after approval of the Penny Program, a super-majority (2/3) of the Plan Sponsors may vote to make changes to the Penny Program. At any time before 60 months have passed since the adoption of the Penny Program, any changes must be unanimously approved by the Plan Sponsors. Any changes to the Penny Program are subject to SEC review pursuant to Section 11A(a)(3) of the Securities Exchange Act of 1934 and Rule 608 thereunder.

4. **Adjustments Pursuant to OCC By-Laws** — Article VI, Section 11 of the OCC By-Laws, as approved by the SEC, provides that OCC shall determine whether to make adjustments to reflect particular events in respect of such underlying security, and the nature and extent of any such adjustment. In connection with such determinations, the options exchanges trading such options class are authorized to determine operational issues attendant to the adjustment made by OCC.

5. **Notices** — All Certificates and any associated information and/or documentation shall be submitted to the OCC via such electronic means reasonably agreed upon among the Plan Sponsors. All other notices required under the terms of this Plan shall be deemed to have been duly given if communicated through electronic mail or other electronic means reasonably agreed upon among the Plan Sponsors. Notices by New Plan Sponsors (as defined in Section 7 below) to then-existing Plan

Sponsors of the execution of the Plan shall be deemed to be duly given if communicated by electronic mail or other electronic means reasonably agreed upon among the Plan Sponsors to each Plan Sponsor.

**6. Miscellaneous —**

- (a) The Exchanges jointly and severally agree to indemnify OCC, its officers, directors and employees and to hold them harmless from and against any and all loss, damage or expense resulting from any and all action taken under this Plan; and
- (b) This Plan supersedes and replaces the Joint Exchange Option Plan approved by the Securities and Exchange Commission in Release No. 34-29698, dated September 17, 1991.

**7. New Plan Sponsors —** The Plan Sponsors agree that any other Eligible Exchange, as defined in subparagraph (i) below, may become a Plan Sponsor by (a) executing a copy of the Plan; (b) providing each then-current Plan Sponsor with a copy of such executed Plan; and (c) effecting an amendment to the Plan as specified in subparagraph (ii) below:

- (i) Eligible Exchange means a national securities exchange registered with the Securities and Exchange Commission in accordance with Section 6(a) of the Securities Exchange Act of 1934 that (1) has effective rules for the trading of option contracts issued and cleared by OCC approved in accordance with the provisions of the Exchange Act and the rules and regulations thereunder; and (2) is a party to the Plan for Reporting of Consolidated Options Last Sale Reports and Quotation Information (the “OPRA Plan”).
- (ii) To become a Plan Sponsor, an amendment to the Plan may be effected by a new Eligible Exchange executing a copy of the Plan, as then in effect (with the only change being the addition of the new Plan Sponsor's name in Section 9 below) and submitting such executed Plan to the SEC. Such amendment will be effective when it has been approved by the SEC or otherwise becomes effective pursuant to Section 11A of the Exchange Act and Rule 11Aa3-2.

**8. Loss of Eligibility —** An exchange shall no longer be an Eligible Exchange when it ceases trading OCC issued and cleared option contracts, or, if it has become a Plan Sponsor pursuant to

Section 7. above and has not commenced to list and trade OCC issued and cleared option contracts within one year of becoming a Plan Sponsor.

9. **List of Plan Sponsors** — The Sponsors of the Options Listing Procedures Plan are as follows:

- NYSE American, LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at 11 Wall Street, New York, NY 10005.
- Cboe BZX Exchange, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at 400 South LaSalle Street, Chicago, Illinois 60605.
- BOX Exchange LLC (“BOX”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 101 Arch Street, St. 610, Boston, Massachusetts 02110.
- Cboe Exchange, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at 400 South LaSalle Street, Chicago, Illinois 60605.
- Cboe C2 Exchange, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at 400 South LaSalle Street, Chicago, Illinois 60605.
- Cboe EDGX Exchange, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at 400 South LaSalle Street, Chicago, Illinois 60605.
- Nasdaq ISE, LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at One Liberty Plaza, 50th Floor, New York, New York 10006.

- Nasdaq MRX, LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at One Liberty Plaza, 50th Floor, New York, New York 10006.
- MEMX LLC (“MEMX”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 525 Washington Blvd., Suite 300, Jersey City, NJ 07310.
- Miami International Securities Exchange, LLC (“MIAX”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 7 Roszel Road, Fifth Floor, Princeton, New Jersey 08540.
- MIAX Emerald, LLC (“MIAX Emerald”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 7 Roszel Road, Fifth Floor, Princeton, New Jersey 08540.
- MIAX PEARL, LLC (“MIAX PEARL”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 7 Roszel Road, Fifth Floor, Princeton, New Jersey 08540.
- MIAX Sapphire, LLC (“MIAX Sapphire”), registered as a national securities exchange under the Exchange Act and having its principal place of business at 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540.
- The Nasdaq Stock Market LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at One Liberty Plaza, 50th Floor, New York, New York 10006.

- Nasdaq BX, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at One Liberty Plaza, 50th Floor, New York, New York 10006.
- The Options Clearing Corporation (“OCC”), registered as a clearing agency under the Exchange Act and having its principal place of business at 125 South Franklin Street, Suite 1200, Chicago, Illinois 60606.
- NYSE Arca, Inc., registered as a national securities exchange under the Exchange Act and having its principal place of business at 11 Wall Street, New York, NY 10005.
- Nasdaq PHLX LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at FMC Tower, Level 8, 2929 Walnut Street, Philadelphia, Pennsylvania 19104.
- Nasdaq GEMX, LLC, registered as a national securities exchange under the Exchange Act and having its principal place of business at One Liberty Plaza, 50th Floor, New York, New York 10006.

\* \* \* \* \*

**SIGNATURES**

IN WITNESS WHEREOF, this Plan has been executed as of the eleventh day of January,  
2001 by each Plan Sponsor:

AMERICAN STOCK EXCHANGE LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

CHICAGO BOARD OPTIONS EXCHANGE,  
INCORPORATED

By: \_\_\_\_\_

Title: \_\_\_\_\_

INTERNATIONAL SECURITIES EXCHANGE  
LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

THE OPTIONS CLEARING CORPORATION

By: \_\_\_\_\_

Title: \_\_\_\_\_

PACIFIC EXCHANGE, INC.

By: \_\_\_\_\_

Title: \_\_\_\_\_

PHILADELPHIA STOCK EXCHANGE, INC.

By: \_\_\_\_\_

Title: \_\_\_\_\_



IN WITNESS WHEREOF, this Plan has been executed as of the fourth day of February, 2004 by the following Plan Sponsor:

NASDAQ STOCK MARKET LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the ninth day of December 2009 by the following Plan Sponsor:

**BATS EXCHANGE, INCORPORATED**

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the sixth day of October 2010  
by the following Plan Sponsor:

C2 OPTIONS EXCHANGE, INCORPORATED

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 1st day of May 2012 by  
the following Plan Sponsor:

BOX OPTIONS EXCHANGE, LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 27th day of June 2012  
by the following Plan Sponsor:

NASDAQ OMX BX, INC.

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 5th day of December, 2012  
by the following Plan Sponsor:

MIAMI INTERNATIONAL SECURITIES  
EXCHANGE, LLC

By:

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 1st day of August, 2013  
by the following Plan Sponsor:

Topaz Exchange, LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the fifteenth day of October 2015 by the following Plan Sponsor:

EDGX EXCHANGE, INC.

By: \_\_\_\_\_

Title: \_\_\_\_\_



IN WITNESS WHEREOF, this Plan has been executed as of the 9th day of February, 2016 by the following Plan Sponsor:

ISE Mercury, LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 13<sup>th</sup> day of January, 2017 by the following Plan Sponsor:

MIAX PEARL, LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 12<sup>th</sup> day of February, 2019 by the following Plan Sponsor:

MIAX EMERALD, LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 29<sup>th</sup> day of August,  
2023 by the following Plan Sponsor:

MEMX LLC

By: \_\_\_\_\_

Title: \_\_\_\_\_

IN WITNESS WHEREOF, this Plan has been executed as of the 23<sup>rd</sup> day of July, 2024  
by the following Plan Sponsor:

MIAX SAPPHIRE, LLC

By: \_\_\_\_\_

Edward Deitzel

EVP & Chief Regulatory Officer