



March 25, 2022

Jeannette Jackson
Division of Trading and Markets
Office of Market Supervision
Securities and Exchange Commission
100 F. Street, N.E.
Washington, D.C. 20549

**RE: MIAX PEARL, LLC ("Pearl")
Amendment 2022-5 to Form 1 Application**

Dear Ms. Jackson:

Enclosed for official filing pursuant to Rule 6a-2(a) is Amendment 2022-5 to the Form 1 Application of Pearl, which includes the following changes:

- Exhibit C – Updated officers for Miami International Holdings, Inc., Miami International Securities Exchange, LLC, and MIAX Emerald, LLC
- Exhibit J – Updated officers and directors
- Exhibit M – Updated member list for MIAX Pearl Equities

Please do not hesitate to contact me if you have any questions in connection with this matter.

Sincerely,

Barbara J. Comly

Barbara J. Comly
EVP, General Counsel & Corporate Secretary

Enclosure
cc: Marlene Olsen

7 Roszel Road, Suite 1A
Princeton, New Jersey 08540

1450 Brickell Avenue
Suite 1100, 11th Floor Loft
Miami, Florida 33131

miaxoptions.com

Form 1 Page 1 Execution Page	UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549 APPLICATION FOR, AND AMENDMENTS TO APPLICATION FOR, REGISTRATION AS A NATIONAL SECURITIES EXCHANGE OR EXEMPTION FROM REGISTRATION PURSUANT TO SECTION 5 OF THE EXCHANGE ACT	Date filed (MM/DD/YY): 03/25/22	OFFICIAL USE ONLY
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Warning: Failure to keep this form current and to file accurate supplementary information on a timely basis, or the failure to keep accurate books and records or otherwise comply with the provisions of law applying to the conduct of the applicant would violate the federal securities laws and may result in disciplinary, administrative or criminal action

INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACTS MAY CONSTITUTE CRIMINAL VIOLATIONS

APPLICATION AMENDMENT

1. State the name of the applicant: MIAX PEARL, LLC
2. Provide the applicant's primary street address (Do not use a P.O. Box): 7 Roszel Road, Suite 1A, Princeton, NJ 08540
3. Provide the applicant's mailing address (if different):
4. Provide the applicant's business telephone and facsimile number:
Telephone: 609-897-7300; Facsimile: 609-987-2210
5. Provide the name, title and telephone number of a contact employee:
Barbara J. Comly, EVP, General Counsel & Corporate Secretary
609-897-7315
6. Provide the name and address of counsel for the applicant:
Barbara J. Comly, EVP, General Counsel & Corporate Secretary
MIAX PEARL, LLC
7 Roszel Road, Suite 1A
Princeton, NJ 08540
7. Provide the date applicant's fiscal year ends: December 31
8. Indicate legal status of applicant: Corporation Sole Proprietorship Partnership
 Limited Liability Company Other (specify):



22000892

If other than a sole proprietor, indicate the date and place where applicant obtained its legal status (e.g. state where incorporated, place where partnership agreement was filed or where applicant entity was formed):

- (a) Date (MM/DD/YY): 02/11/16 (b) State/Country of formation: Delaware
- (c) Statute under which applicant was organized: Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.)

EXECUTION: The applicant consents that service of any civil action brought by, or notice of any proceeding before, the Securities and Exchange Commission in connection with the applicant's activities may be given by registered or certified mail or confirmed telegram to the applicant's contact employee at the main address, or mailing address if different, given in Items 2 and 3. The undersigned, being first duly sworn, deposes and says that he/she has executed this form on behalf of, and with the authority of, said applicant. The undersigned and applicant represent that the information and statements contained herein, including exhibits, schedules, or other documents attached hereto, and other information filed herewith, all of which are made a part hereof, are current, true, and complete.

MIAX PEARL, LLC

Date: March 25, 2022

By: Barbara J. Comly
Barbara J. Comly
EVP, General Counsel & Corporate Secretary

Subscribed and sworn before me this ____ day of _____, 2022.

Based upon relief from Commission Staff and difficulties arising from COVID-19, MIAX PEARL, LLC is making this filing without a notarization.

Notary Public of the State of New Jersey

This page must always be completed in full with original, manual signature and notarization.
Affix notary stamp or seal where applicable.

EXHIBIT C

Exhibit Request:

For each subsidiary or affiliate of the applicant, and for any entity with whom the applicant has a contractual or other agreement relating to the operation of an electronic trading system to be used to effect transactions on the exchange (“System”), provide the following information:

1. Name and address of organization.
2. Form of organization (e.g., association, corporation, partnership, etc.).
3. Name of state and statute citation under which organized. Date of incorporation in present form.
4. Brief description of nature and extent of affiliation.
5. Brief description of business or functions. Description should include responsibilities with respect to operation of the System and/or execution, reporting, clearance, or settlement of transactions in connection with operation of the System.
6. A copy of the constitution.
7. A copy of the articles of incorporation or association including all amendments.
8. A copy of existing by-laws or corresponding rules or instruments.
9. The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions.
10. An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association.

Response:

A. MIAMI INTERNATIONAL HOLDINGS, INC.

1. *Name:* Miami International Holdings, Inc.
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Corporation.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware General Corporation Law (8 Del. C. § 1-101, et seq.), on November 14, 2007.
4. *Brief description of nature and extent of affiliation:* MIAX PEARL, LLC is a wholly-owned subsidiary of Miami International Holdings, Inc. (“MIH”).

5. *Brief description of business or functions:* Miami International Holdings, Inc. is a holding company which holds 100% of the equity of Miami International Securities Exchange, LLC, MIAX PEARL, LLC, Miami International Technologies, LLC, MIAX Global, LLC, MIAX Emerald, LLC, MIAX Futures, LLC, MIAX Products, LLC, The Bermuda Stock Exchange, and M 402 Holdings, LLC, the sole member and owner of 100% of the equity and voting securities of Minneapolis Grain Exchange, LLC. MIAX Futures, LLC is the owner of 51% of the outstanding membership interests in ConvexityShares, LLC. Miami International Holdings, Inc. is the entity through which the ultimate owners of the applicant indirectly hold their ownership interest in the applicant and its affiliates.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Amended and Restated Certificate of Incorporation dated October 16, 2015 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Amended and Restated By-Laws dated June 27, 2015 are attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of Miami International Holdings, Inc.

The following persons are the officers of Miami International Holdings, Inc.:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Edward Deitzel	Executive Vice President and Chief Regulatory Officer
Shelly Brown	Executive Vice President – Strategic Planning and Business Development
Mark G. Bagan	Executive Vice President – US Futures Strategy
Randy Foster	Senior Vice President – Business Systems Development
Harish Jayabalan	Senior Vice President – Chief Information Security Officer
Matthew Rotella	Senior Vice President – Chief Technology Officer
Joseph W. Ferraro III	Senior Vice President – Deputy General Counsel
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Amy Neiley-Avayou	Senior Vice President – Trading Operations and Listings
Paul Anders (Andy) Nybo	Senior Vice President – Chief Communications Officer
Charles Blades	Vice President – Controller

Name	Title
Mitchell Garfinkel	Vice President – Finance
Rodney Hester	Vice President – Systems Infrastructure
Daniel Hsu	Vice President – Exchange Pricing & Business Analysis
Kaitlin Meyer	Vice President – Marketing and Sales
James O’Neil	Vice President and Director of Physical Security and Safety
Gerard (Chaz) Palmeri	Vice President – Systems Operations
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Nicholas Scalabrino	Vice President – Head of Strategic and Business Planning and Functional Strategies for MIAX Pearl Equities
Christopher Solgan	Vice President – Senior Counsel
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Dimitriy Kotov	Assistant Vice President – Associate Counsel
Michael Slade	Assistant Vice President – Associate Counsel

The officers of Miami International Holdings, Inc. serve until their successors are appointed in accordance with the By-Laws of Miami International Holdings, Inc. Officers of Miami International Holdings, Inc. serve at the direction of the Board of Directors.

Directors of Miami International Holdings, Inc.

The following persons are the directors of Miami International Holdings, Inc.:

Name
Thomas P. Gallagher (Chairman)
Talal Jassim Al-Bahar
Abdulwahab Ahmad Al-Nakib
Sayer B. Al-Sayer
Michael P. Ameen
Albert M. Barro, Jr.
John Beckelman
Barry J. Belmont
Ricardo Blach
Christopher Brady
Khaled Magdy El-Marsafy
William W. Hopkins
Thomas J. Kelly, Jr.
Paul Kotos
Mark I. Massad

Jack G. Mondel
William J. O'Brien III
Robert D. Prunetti
Mark F. Raymond
Douglas M. Schafer, Jr.
Paul V. Stahlin
J. Gray Teekell
Jassem Hassan Zainal

Directors of Miami International Holdings, Inc. serve one year terms.

Audit Committee of Miami International Holdings, Inc.

The following persons are members of the Audit Committee of Miami International Holdings, Inc.:

Name
Paul V. Stahlin (Chairman)
Michael P. Ameen
Khaled Magdy El-Marsafy
Robert D. Prunetti

Compensation Committee of Miami International Holdings, Inc.

The following persons are members of the Compensation Committee of Miami International Holdings, Inc.:

Name
Talal Jassim Al-Bahar (Chairman)
Christopher D. Brady
Thomas J. Kelly
Mark F. Raymond
J. Gray Teekell

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

B. MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

1. *Name:* Miami International Securities Exchange, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on September 10, 2007.
4. *Brief description of nature and extent of affiliation:* Miami International Securities Exchange, LLC is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.
5. *Brief description of business or functions:* Miami International Securities Exchange, LLC ("MIAX") is registered as a National Securities Exchange under Section 6 of the Securities Exchange Act of 1934, as amended. MIAX operates a fully electronic options trading platform.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Amended and Restated Certificate of Formation dated November 12, 2020 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Third Amended and Restated Limited Liability Company Agreement dated November 12, 2020, and Amended and Restated By-Laws dated November 12, 2020 are attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of Miami International Securities Exchange, LLC

The following persons are the officers of Miami International Securities Exchange, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Edward Deitzel	Executive Vice President, Chief Regulatory Officer and Chief Compliance Officer
Shelly Brown	Executive Vice President – Strategic Planning and Business Development

Name	Title
John Smollen	Executive Vice President – Head of Exchange Traded Products and Strategic Relations
Randy Foster	Senior Vice President – Business Systems Development
Harish Jayabalan	Senior Vice President – Chief Risk Officer and Chief Information Security Officer
Matthew Rotella	Senior Vice President – Chief Technology Officer
Joseph W. Ferraro III	Senior Vice President – Deputy General Counsel
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Joseph S. Bracco	Senior Vice President – Head of Sales
Amy Neiley-Avayou	Senior Vice President – Trading Operations and Listings
Paul Anders (Andy) Nybo	Senior Vice President – Chief Communications Officer
Charles Blades	Vice President – Controller
Jonathan S. Dowd	Vice President – Business Strategy
Laurence Gardner	Vice President – Regulatory Operations
Mitchell Garfinkel	Vice President – Finance
Rodney Hester	Vice President – Systems Infrastructure
Daniel Hsu	Vice President – Exchange Pricing & Business Analysis
Thomas Jarck	Vice President – Proprietary Product Development
Matthew McFarland	Vice President – Derivative Products and Business Development
Kaitlin Meyer	Vice President – Marketing and Sales
Lawrence O’Leary	Vice President – Regulatory Oversight
James O’Neil	Vice President and Director of Physical Security and Safety
Gerard (Chaz) Palmeri	Vice President – Systems Operations
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Christopher Solgan	Vice President – Senior Counsel
Christopher Swisher	Vice President – Market Surveillance
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Dimitriy Kotov	Assistant Vice President – Associate Counsel
Michael Slade	Assistant Vice President – Associate Counsel

The officers of Miami International Securities Exchange, LLC serve until their successors are appointed in accordance with the By-Laws of Miami International Securities Exchange, LLC. Officers of Miami International Securities Exchange, LLC will serve at the direction of the Board of Directors.

Directors of Miami International Securities Exchange, LLC

The following persons are the directors and Board observers of Miami International Securities Exchange, LLC:

Directors
Thomas P. Gallagher
Michael P. Ameen
Lindsay L. Burbage
Robert Castrignano
Marianne Deane
John DiBacco, Jr.
David Dooman
Kurt M. Eckert
Leslie Florio
Lawrence E. Jaffe
Paul Jiganti
John A. Kinahan
William V. Looney, Jr.
John E. McCormac
Robert D. Prunetti
Joseph Sellitto
Cynthia Schwarzkopf
J. Gray Teekell
Observers
Lawrence Tanzman

Committees of Miami International Securities Exchange, LLC

The standing committees of the Board and the persons appointed to sit on the standing committees are as follows:

Audit Committee
Robert D. Prunetti (Chair)
Michael P. Ameen
John E. McCormac

Compensation Committee
J. Gray Teekell (Chair)
Robert D. Prunetti
Cynthia Schwarzkopf

Regulatory Oversight Committee
Lindsay L. Burbage (Chair)
Leslie Florio
Lawrence E. Jaffe

Appeals Committee
Lawrence Jaffe (Chair)
Robert Castrignano
Kurt M. Eckert

Technology Committee
Leslie Florio (Chair)
Robert Castrignano
Marianne Deane
David Dooman
Kurt M. Eckert
John A. Kinahan
John E. McCormac
Cynthia Schwarzkopf
J. Gray Teekell

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

C. MIAX EMERALD, LLC

- Name:* MIAX Emerald, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
- Form of organization:* Limited Liability Company.
- Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on January 30, 2018.
- Brief description of nature and extent of affiliation:* MIAX Emerald, LLC ("MIAX Emerald") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.

5. *Brief description of business or functions:* MIAX Emerald is registered as a National Securities Exchange under Section 6 of the Securities Exchange Act of 1934, as amended. MIAX Emerald operates a fully electronic options trading platform.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Amended and Restated Certificate of Formation dated November 12, 2020 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Second Amended and Restated Limited Liability Company Agreement dated November 12, 2020 and Amended and Restated By-Laws dated November 12, 2020 are attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of MIAX Emerald, LLC

The following persons are the officers of MIAX Emerald, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Edward Deitzel	Executive Vice President, Chief Regulatory Officer and Chief Compliance Officer
Shelly Brown	Executive Vice President – Strategic Planning and Business Development
John Smollen	Executive Vice President – Head of Exchange Traded Products and Strategic Relations
Randy Foster	Senior Vice President – Business Systems Development
Harish Jayabalan	Senior Vice President – Chief Risk Officer and Chief Information Security Officer
Matthew Rotella	Senior Vice President – Chief Technology Officer
Joseph W. Ferraro III	Senior Vice President – Deputy General Counsel
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Joseph S. Bracco	Senior Vice President – Head of Sales
Amy Neiley-Avayou	Senior Vice President – Trading Operations and Listings
Paul Anders (Andy) Nybo	Senior Vice President – Chief Communications Officer
Charles Blades	Vice President – Controller
Jonathan S. Dowd	Vice President – Business Strategy

Name	Title
Laurence Gardner	Vice President – Regulatory Operations
Mitchell Garfinkel	Vice President – Finance
Rodney Hester	Vice President – Systems Infrastructure
Daniel Hsu	Vice President – Exchange Pricing & Business Analysis
Thomas Jarck	Vice President – Proprietary Product Development
Matthew McFarland	Vice President – Derivative Products and Business Development
Kaitlin Meyer	Vice President – Marketing and Sales
Lawrence O’Leary	Vice President – Regulatory Oversight
James O’Neil	Vice President and Director of Physical Security and Safety
Gerard (Chaz) Palmeri	Vice President – Systems Operations
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Christopher Solgan	Vice President – Senior Counsel
Christopher Swisher	Vice President – Market Surveillance
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Dimitriy Kotov	Assistant Vice President – Associate Counsel
Michael Slade	Assistant Vice President – Associate Counsel

The officers of MIAX Emerald, LLC serve until their successors are appointed in accordance with the By-Laws of MIAX Emerald, LLC. Officers of MIAX Emerald, LLC will serve at the direction of the Board of Directors.

Directors of MIAX Emerald, LLC

The following persons are the directors of MIAX Emerald, LLC:

Name
Thomas P. Gallagher
Lindsay L. Burbage
Marianne Deane
Kurt M. Eckert
David S. Fleming
Leslie Florio
Michael Golding
Kimberly M. Guadagno
Richard Herr
Paul Jiganti
Michael Juneman

Joseph M. Kyrillos Jr.
John E. McCormac
Robert D. Prunetti

Committees of MIAX Emerald, LLC

The standing committees of the Board and the persons appointed to sit on the standing committees are as follows:

Audit Committee
Robert D. Prunetti (Chair)
Joseph M. Kyrillos Jr.
John E. McCormac

Compensation Committee
Robert D. Prunetti (Chair)
Marianne Deane
Joseph M. Kyrillos Jr.

Regulatory Oversight Committee
Lindsay L. Burbage (Chair)
Leslie Florio
Kimberly M. Guadagno

Appeals Committee
Marianne Deane (Chair)
Kurt M. Eckert
Paul Jiganti

Technology Committee
Leslie Florio (Chair)
Marianne Deane
David S. Fleming
John E. McCormac

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

D. MIAMI INTERNATIONAL TECHNOLOGIES, LLC

1. *Name:* Miami International Technologies, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on May 12, 2010.
4. *Brief description of nature and extent of affiliation:* Miami International Technologies, LLC ("MIAX Technologies") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.
5. *Brief description of business or functions:* MIAX Technologies engages in the sale and licensing of trading and information technology to unrelated third parties.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Amended and Restated Certificate of Formation dated June 29, 2011 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Second Amended and Restated Limited Liability Company Agreement dated June 25, 2021 is attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of Miami International Technologies, LLC

The following persons are the officers of Miami International Technologies, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Douglas M. Schafer, Jr.	President and Chief Information Officer
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Matthew Rotella	Senior Vice President – Chief Technology Officer
Randy Foster	Senior Vice President – Business Systems Development
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Harish Jayabalan	Senior Vice President – Chief Information Security Officer
Charles Blades	Vice President – Controller
Mitchell Garfinkel	Vice President – Finance
Rodney Hester	Vice President – Systems Infrastructure

Name	Title
James O'Neil	Vice President and Director of Physical Security and Safety
Tia Toms	Vice President – Administration

Directors of Miami International Technologies, LLC

The following persons are the directors of Miami International Technologies, LLC:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

E. MIAX FUTURES, LLC

1. *Name:* MIAX Futures, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on November 30, 2007.
4. *Brief description of nature and extent of affiliation:* MIAX Futures, LLC ("MIAX Futures") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.
5. *Brief description of business or functions:* MIAX Futures is the owner of 51% of the outstanding membership interests in ConvexityShares, LLC.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Restated Certificate of Formation dated March 10, 2021 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Second Amended and Restated Limited Liability Company Agreement dated March 10, 2021 is attached.

9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of MIAX Futures, LLC

The following persons are the officers of MIAX Futures, LLC:

Name	Title
Thomas P. Gallagher	Chairman
Joseph W. Ferraro III	President
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Randy Foster	Senior Vice President – Business Systems Development
Matthew Rotella	Senior Vice President – Chief Technology Officer
Thomas Jarck	Vice President – Proprietary Product Development
Matthew McFarland	Vice President – Derivative Products and Business Development

Directors of MIAX Futures, LLC

The following persons are the directors of MIAX Futures, LLC:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

F. THE BERMUDA STOCK EXCHANGE

- Name:* The Bermuda Stock Exchange
Address: 30 Victoria Street, 3F, Hamilton, Bermuda
- Form of organization:* A body corporate incorporated pursuant to The Bermuda Stock Exchange Act 1992.
- Name of state, statute under which organized and date of incorporation:* Bermuda, The Bermuda Stock Exchange Company Act 1992, on March 10, 1993.
- Brief description of nature and extent of affiliation:* Miami International Holdings, Inc., which is the applicant's 100% owner, is the owner of 100% of the outstanding shares of The Bermuda Stock Exchange ("BSX").
- Brief description of business or functions:* Stock Exchange located in Hamilton, Bermuda.
- A copy of the constitution:* Not applicable.
- A copy of the articles of incorporation or association including all amendments:* The Memorandum of Association dated March 10, 1993, is attached.
- A copy of existing by-laws or corresponding rules or instruments:* The Amended and Restated Bye-Laws dated July 21, 2003, are attached.
- The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of The Bermuda Stock Exchange

The following persons are the officers of The Bermuda Stock Exchange:

Name	Title
Gregory A. Wojciechowski	President & Chief Executive Officer
Gregory A. Wojciechowski	Secretary
James McKirdy	Chief Compliance Officer
Jacintha Pogson-Hughes	Chief Administration Officer

Council (Directors) of The Bermuda Stock Exchange

The following persons are the council of The Bermuda Stock Exchange:

Council
Thomas P. Gallagher (Chairman)
David Brown (Deputy Chairman)
Jeff Conyers
Caroline Kennedy

Mark Massad
Michael Neff
Eric Sites
Murray Stahl
John Wight
Gregory A. Wojciechowski

Committees of The Bermuda Stock Exchange

Business Development Committee
Eric Sites
Jeff Conyers
Michael Neff
Gregory A. Wojciechowski

Compensation Committee
Thomas P. Gallagher
David Brown
Jeff Conyers
Michael Neff

Executive Management Committee
Thomas P. Gallagher
David Brown
Jeff Conyers
Michael Neff

Listing Committee
Dudley Cottingham
Sharon Beesley
Miguel DaPonte
Susan Monkman
Marco Montarsolo
Gregory A. Wojciechowski

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:*
Not applicable.

G. M 402 HOLDINGS, LLC

1. *Name:* M 402 Holdings, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on June 27, 2020.
4. *Brief description of nature and extent of affiliation:* M 402 Holdings, LLC ("M 402") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner. Minneapolis Grain Exchange, LLC ("MGEX") is a wholly-owned subsidiary of M 402.
5. *Brief description of business or functions:* M 402 is a holding company for the equity and voting securities of MGEX.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Certificate of Formation is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Limited Liability Company Agreement and By-Laws are attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of M 402 Holdings, LLC

The following persons are the officers of M 402 Holdings, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer

Directors of M 402 Holdings, LLC

The following persons are the directors of M 402 Holdings, LLC:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

H. MINNEAPOLIS GRAIN EXCHANGE, LLC

1. *Name:* Minneapolis Grain Exchange, LLC
Address: 400 S 4th St, Minneapolis, MN 55415
2. *Form of organization:* Limited Liability Corporation.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on December 4, 2020.
4. *Brief description of nature and extent of affiliation:* Miami International Holdings, Inc. is the sole member and owner of M 402 Holdings, LLC, which in turn is the sole member and owner of 100% of the equity and voting securities of Minneapolis Grain Exchange, LLC (“MGEX”).
5. *Brief description of business or functions:* MGEX is a designated contract market and derivatives clearing organization that operates under the regulatory oversight of the Commodity Futures Trading Commission pursuant to Section 5 of the Commodity Exchange Act 7 U.S.C. §7. MGEX is also registered as a national securities exchange under Section 6(g) of Securities Exchange Act.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Certificate of Formation dated December 4, 2020 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Limited Liability Company Agreement dated December 4, 2020 and Bylaws dated December 4, 2020 are attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of Minneapolis Grain Exchange, LLC

The following persons are the officers of Minneapolis Grain Exchange, LLC:

Name	Title
Mark G. Bagan	President & Chief Executive Officer
Layne G. Carlson	Treasurer, Secretary, Chief Compliance Officer & Chief Regulatory Officer
James D. Facente, Jr.	Director & Chief Risk Officer – Market Operations, Clearing & IT

Directors of Minneapolis Grain Exchange, LLC

The following persons are the directors of Minneapolis Grain Exchange, LLC:

Name
Thomas P. Gallagher, Chair
De'Ana H. Dow
Michael V. Dunn
Steve Fanady
Bradley Griffith
Christopher T. Matzdorf
Kerry L. Melius
Murray Stahl

Standing Committees of Minneapolis Grain Exchange, LLC

Executive Committee
Thomas P. Gallagher, Chairperson
Kerry L. Melius, First Vice Chairperson
Steve Fanady, Second Vice Chairperson
Bradley Griffith
Murray Stahl
Mark G. Bagan*

Audit Committee
Thomas P. Gallagher, Chairperson
Mark G. Bagan
De'Ana H. Dow
Michael V. Dunn
Bradley Griffith

Nominations Committee
Bradley Griffith, Chairperson
De'Ana H. Dow
Michael V. Dunn
Thomas P. Gallagher
Christopher T. Matzdorf
Mark G. Bagan*

Regulatory Oversight Committee
Steve Fanady, Chairperson
De'Ana H. Dow
Michael V. Dunn
Thomas P. Gallagher*
Mark G. Bagan*

Risk Management Committee
Bradley Griffith, Chairperson
De'Ana H. Dow
Steve Fanady
Thomas P. Gallagher*
Mark G. Bagan*

* Ex officio committee member

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

I. M 44 HOLDINGS, LLC

1. *Name:* M 44 Holdings, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on June 21, 2019.
4. *Brief description of nature and extent of affiliation:* M 44 Holdings, LLC ("M 44") was wholly-owned by Miami International Holdings, Inc. until March 30, 2021.
5. *Brief description of business or functions:* M 44 was a holding company for certain investments.
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Certificate of Formation dated June 21, 2019 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The Limited Liability Company Agreement dated June 26, 2019 is attached.

9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of M 44 Holdings, LLC

The following persons were the officers of M 44 Holdings, LLC until March 30, 2021:

Name	Title
Thomas P. Gallagher	Chairman & Chief Executive Officer
Barbara Comly	Executive Vice President, General Counsel & Corporate Secretary
Douglas M. Shafer, Jr.	Executive Vice President & Chief Information Officer

Directors of M 44 Holdings, LLC

The following persons were the directors of M 44 Holdings, LLC until March 30, 2021:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Yes – M 44 ceased business on March 30, 2021 when a Certificate of Cancellation was filed in the State of Delaware.

J. MIAX GLOBAL, LLC

- Name:* MIAX Global, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
- Form of organization:* Limited Liability Company.
- Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on June 30, 2015.
- Brief description of nature and extent of affiliation:* MIAX Global, LLC (“MIAX Global”) is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.
- Brief description of business or functions:* MIAX Global focuses on the company’s trading, technology and other projects primarily based outside the United States.
- A copy of the constitution:* Not applicable.
- A copy of the articles of incorporation or association including all amendments:* The Amended and Restated Certificate of Formation dated June 25, 2021 is attached.
- A copy of existing by-laws or corresponding rules or instruments:* The Amended and Restated Limited Liability Company Agreement dated June 25, 2021 is attached.

9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of MIAX Global, LLC

The following persons are the officers of MIAX Global, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Lance Emmons	Executive Vice President and Chief Financial Officer
Gregory A. Wojciechowski	President

Directors of MIAX Global, LLC

The following persons are the directors of MIAX Global, LLC:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

K. MIAX PRODUCTS, LLC

- Name:* MIAX Products, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, New Jersey 08540
- Form of organization:* Limited Liability Company.
- Name of state, statute under which organized and date of incorporation:* Illinois, Illinois Limited Liability Company Act, 805 ILCS 180, on January 25, 2019.
- Brief description of nature and extent of affiliation:* MIAX Products, LLC ("MIAX Products") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.
- Brief description of business or functions:* Development of financial products.
- A copy of the constitution:* Not applicable.
- A copy of the articles of incorporation or association including all amendments:* The Restated Articles of Organization dated October 5, 2021 are attached.

8. *A copy of existing by-laws or corresponding rules or instruments:* The Amended and Restated Limited Liability Company Agreement dated October 5, 2021 is attached.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Officers of MIAX Products, LLC

The following persons are the officers of MIAX Products, LLC:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President

Directors of MIAX Products, LLC

The following persons are the directors of MIAX Products, LLC:

Name
Thomas P. Gallagher

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

L. BSD NOMINEE LIMITED

1. *Name:* BSD Nominee Limited
Address: 30 Victoria Street, 3F, Hamilton, Bermuda
2. *Form of organization:* A body corporate incorporated pursuant to Bermuda, The Companies Act 1981.
3. *Name of state, statute under which organized and date of incorporation:* Organized in Bermuda under The Companies Act 1981 on October 24, 2001. Registered in Bermuda under Section 14 of The Companies Act 1981 on November 1, 2001.
4. *Brief description of nature and extent of affiliation:* Miami International Holdings, Inc., which is the applicant's 100% owner, is the owner of 100% of the outstanding shares of The Bermuda Stock Exchange ("BSX"). BSX is the owner of 100% of the outstanding shares of BSD Nominee Limited.
5. *Brief description of business or functions:* To be the legal owner of shares held for the benefit of account holders of the Bermuda Securities Depository of BSX and to provide nominee services in relation to such shares.

6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Memorandum of Association dated October 24, 2001, and related documents is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* Not applicable.
9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Council (Directors) of BSD Nominee Limited

The following persons are the council of BSD Nominee Limited:

Council
Gregory A. Wojciechowski
James McKirdy

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

M. CONVEXITYSHARES, LLC

1. *Name:* ConvexityShares, LLC
Address: 7 Roszel Road, Suite 1A, Princeton, NJ 08540
2. *Form of organization:* Limited Liability Company.
3. *Name of state, statute under which organized and date of incorporation:* Delaware, Delaware Limited Liability Company Act (6 Del. C. § 18-101, et seq.), on December 3, 2020.
4. *Brief description of nature and extent of affiliation:* MIAX Futures, LLC, which is wholly-owned by Miami International Holdings, Inc., the applicant's 100% owner, is the owner of 51% of the outstanding membership interests of ConvexityShares, LLC.
5. *Brief description of business or functions:* Sponsor of certain exchange-traded products. ConvexityShares, LLC is a registered Commodity Pool Operator (CPO) and Commodity Trading Advisor (CTA) with the National Futures Association (NFA).
6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* The Certificate of Formation dated December 3, 2020 is attached.
8. *A copy of existing by-laws or corresponding rules or instruments:* The First Amendment to Limited Liability Company Operating Agreement dated March 10, 2021 is attached.

9. *The name and title of the present officers, governors, members of all standing committees, or persons performing similar functions:*

Managers of ConvexityShares, LLC

The following are the managers of ConvexityShares, LLC:

Name
MIAX Futures, LLC
T3i US Holdings Inc.

Officers of ConvexityShares, LLC

The following persons are the officers of ConvexityShares, LLC:

Name	Title
John Zhu	Chief Executive Officer & Chief Compliance Officer
Simon Ho	President
Melinda Ho	Treasurer, Chief Financial Officer & Secretary
Charles Blades	Controller

10. *An indication of whether such business or organization ceased to be associated with the applicant during the previous year, and a brief statement of the reasons for termination of the association:* Not applicable.

EXHIBIT J

Exhibit Request:

A list of the officers, governors, members of all standing committees, or persons performing similar functions, who presently hold or have held their offices or positions during the previous year, indicating the following for each:

1. Name.
2. Title.
3. Dates of commencement and termination of term of office or position.
4. Type of business in which each is primarily engaged (e.g., floor broker, specialist, odd lot dealer, etc.).

Response:

1. Officers of MIAX PEARL, LLC

The following persons are the officers of the Exchange:

Name	Title
Thomas P. Gallagher	Chairman and Chief Executive Officer
Douglas M. Schafer, Jr.	Chief Information Officer and Executive Vice President
Barbara Comly	Executive Vice President, General Counsel and Corporate Secretary
Lance Emmons	Executive Vice President and Chief Financial Officer
Edward Deitzel	Executive Vice President, Chief Regulatory Officer and Chief Compliance Officer
Shelly Brown	Executive Vice President – Strategic Planning and Business Development
John Smollen	Executive Vice President – Head of Exchange Traded Products and Strategic Relations
Randy Foster	Senior Vice President – Business Systems Development
Harish Jayabalan	Senior Vice President – Chief Risk Officer and Chief Information Security Officer
Matthew Rotella	Senior Vice President – Chief Technology Officer
Joseph W. Ferraro III	Senior Vice President – Deputy General Counsel
Deborah Carroll	Senior Vice President – Associate General Counsel and Assistant Corporate Secretary
Joseph S. Bracco	Senior Vice President – Head of Sales

Name	Title
Amy Neiley-Avayou	Senior Vice President – Trading Operations and Listings
Paul Anders (Andy) Nybo	Senior Vice President – Chief Communications Officer
Charles Blades	Vice President – Controller
Jonathan S. Dowd	Vice President – Business Strategy
Laurence Gardner	Vice President – Regulatory Operations
Mitchell Garfinkel	Vice President – Finance
Rodney Hester	Vice President – Systems Infrastructure
Daniel Hsu	Vice President – Exchange Pricing & Business Analysis
Thomas Jarck	Vice President – Proprietary Product Development
Matthew McFarland	Vice President – Derivative Products and Business Development
Kaitlin Meyer	Vice President – Marketing and Sales
Lawrence O’Leary	Vice President – Regulatory Oversight
James O’Neil	Vice President and Director of Physical Security and Safety
Gerard (Chaz) Palmeri	Vice President – Systems Operations
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Nicholas Scalabrino	Vice President – Head of Strategic and Business Planning and Functional Strategies for MIAX Pearl Equities
Christopher Solgan	Vice President – Senior Counsel
Christopher Swisher	Vice President – Market Surveillance
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Dimitriy Kotov	Assistant Vice President – Associate Counsel
Michael Slade	Assistant Vice President – Associate Counsel

The officers of the Exchange serve until their successors are appointed in accordance with the By-Laws of the Exchange. Officers of the Exchange serve at the direction of the Board of Directors.

2. Directors of MIAX PEARL, LLC

The following persons are the directors of the Exchange:

Name	Classification	Term of Office	Type of Business
Thomas P. Gallagher	Industry	So long as CEO of the Company	Securities Exchange
Paul Jiganti	Industry/ERP	So long as qualified under the Equity Rights Program	Managing Director of Business Development and Market Structure Strategy – IMC Financial Markets
Paul Kenyon	Industry/ERP	So long as qualified under the Equity Rights Program	Business Development, Americas – Jump Trading, LLC
Joseph Sellitto	Industry/ERP	So long as qualified under the Equity Rights Program	President and CEO – Global Execution Brokers, LP
George Wolf	Industry/ERP	So long as qualified under the Equity Rights Program	Executive Director – UBS Securities LLC
William T. Bergman	Non-Industry/Independent	Class II – 2025	Vice President and Special Assistant to the President – Temple University
Lindsay L. Burbage	Non-Industry/Independent	Class II – 2025	Attorney
Michael Harrington	Industry	Class II – 2025	Head of Client Relationships – Citadel, LLC
John E. McCormac	Non-Industry/Independent	Class II – 2025	Township Mayor – Woodbridge, New Jersey; Former New Jersey State Treasurer
Miguel Moratiel	Non-Industry	Class II – 2025	Manager – MDR Inversiones, S.L.
Steven Sosnick	Industry/Member Representative	Class II – 2025	Chief Strategist – Interactive Brokers LLC

Name	Classification	Term of Office	Type of Business
Talal Jassim Al-Bahar	Non-Industry	Class III – 2023	Chairman – IFA Hotels & Resorts K.S.C.; Vice Chairman and CEO – Kuwait Real Estate K.S.C.
Kurt M. Eckert	Industry	Class III – 2023	Partner and Head of Market Structure – Wolverine Trading, LLC
Leslie Florio	Non-Industry/ Independent	Class III – 2023	Vice President – Maxwell Place Condominium Association
John Rothstein	Industry/Member Representative	Class III – 2023	Chief Operating Officer and Partner – Optiver US LLC
Cynthia Schwarzkopf	Non-Industry/ Independent	Class III – 2023	Professional and Philanthropic Public Speaker
Erik Swanson	Industry/Member Representative	Class III – 2023	Chief Executive Officer – Simplex Trading, LLC
Christopher L. Whittington	Non-Industry	Class III – 2023	Attorney
Sean Barry	Industry/Member Representative	Class I – 2024	Chief Information Officer – ABN AMRO Clearing Chicago, LLC
David Brown	Non-Industry	Class I – 2024	Retired
Guy Dowman	Industry/Member Representative	Class I – 2024	Head of Options Business Development for HRT Financial, LP – Hudson River Trading
Lawrence E. Jaffe	Non-Industry/ Independent	Class I – 2024	Attorney (Retired)
William J. O'Brien IV	Non-Industry	Class I – 2024	Chief Executive Officer – Performance Operating Partners, LLC; President and Chief Operating Officer – O'Brien Energy Company, LLC
Robert D. Prunetti	Non-Industry/ Independent	Class I – 2024	President – Phoenix Ventures, LLC

3. Committees of MIAX PEARL, LLC

The standing committees of the Board and the persons appointed to sit on the standing committees are as follows:

COMPENSATION COMMITTEE	
Name	Classification
Cynthia Schwarzkopf (Chair)	Non-Industry/Independent
William T. Bergman	Non-Industry/Independent
Robert D. Prunetti	Non-Industry/Independent

AUDIT COMMITTEE	
Name	Classification
Robert D. Prunetti (Chair)	Non-Industry/Independent
John E. McCormac	Non-Industry/Independent
Cynthia Schwarzkopf	Non-Industry/Independent

REGULATORY OVERSIGHT COMMITTEE	
Name	Classification
Lindsay L. Burbage (Chair)	Non-Industry/Independent
Leslie Florio	Non-Industry/Independent
Lawrence E. Jaffe	Non-Industry/Independent

APPEALS COMMITTEE	
Name	Classification
Lawrence E. Jaffe (Chair)	Non-Industry/Independent
Kurt M. Eckert	Industry
Guy Dowman	Industry/Member Representative

TECHNOLOGY COMMITTEE	
Name	Classification
Leslie Florio (Chair)	Non-Industry/Independent
Sean Barry	Industry/Member Representative
David Brown	Non-Industry
Kurt M. Eckert	Industry
John E. McCormac	Non-Industry/Independent

EXHIBIT M

Exhibit Request:

Provide an alphabetical list of all members, subscribers or other users, including the following information:

1. Name;
2. Date of election to membership or acceptance as a member, subscriber or other user;
3. Principal business address and telephone number;
4. If member, subscriber or other user is an individual, the name of the entity with which such individual is associated and the relationship of such individual to the entity (e.g. partner, officer, director, employee, etc.);
5. Describe the type of activities primarily engaged in by the member, subscriber, or other user (e.g. floor broker, specialist, odd lot dealer, other market maker, proprietary trader, non-broker dealer, inactive or other functions). A person shall be “primarily engaged” in an activity or function for purposes of this item when that activity or function is the one in which that person is engaged for the majority of their time. When more than one type of person at an entity engages in any of the six types of activities or functions enumerated in this item, identify each type (e.g. proprietary trader, Registered Competitive Trader and Registered Competitive Market Maker) and state the number of participants, subscribers, or other users in each; and
6. The class of membership, participation or subscription or other access.

Response:

1. **MIAX Pearl Options.** No change to the list of the members of the MIAX Pearl Options exchange dated as of June 9, 2021, previously filed.
2. **MIAX Pearl Equities.** Attached is a list of the members of the MIAX Pearl Equities exchange as of March 22, 2022, including the information set forth in items 1-6 above.

ABN AMRO CLEARING CHICAGO LLC

175 West Jackson Blvd., Ste. 2050
 Chicago IL 60604
 Tele #: (312) 604-8000

Approval Date: 9/25/2020
Membership Activities:
 Clearance
 International Tele #

SEC #: 8-34354
 CRD #: 14020

ARCHIPELAGO SECURITIES LLC

353 North Clark Street, Ste. 3200
 Chicago IL 60654
 Tele #: (312) 836-6700

Approval Date: 9/25/2020
Membership Activities:
 Clearance & Routing Broker
 International Tele #

SEC #: 8-52140
 CRD #: 102500

ATM EXECUTION LLC

599 Lexington Avenue
 New York NY 10022
 Tele #: (646) 562-1010

Approval Date: 10/12/2020
Membership Activities:
 Order Entry
 International Tele #

SEC #: 8-65509
 CRD #: 122529

BARCLAYS CAPITAL INC.

745 Seventh Avenue
 New York NY 10019
 Tele #: (212) 526-7000

Approval Date: 9/25/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8-41342
 CRD #: 19714

BNP PARIBAS SECURITIES CORP.

787 Seventh Avenue
 New York NY 10019
 Tele #: (212) 841-2000

Approval Date: 12/7/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8-32682
 CRD #: 15794

BOFA SECURITIES, INC.

One Bryant Park
 New York NY 10036
 Tele #: (646) 743-2734

Approval Date: 9/25/2020
Membership Activities:
 Registered Market Maker, Order Entry & Clearance
 International Tele #

SEC #: 8-69787
 CRD #: 283942

CITADEL SECURITIES LLC

131 South Dearborn Street - 32nd Floor
 Chicago IL 60603
 Tele #: (312) 395-2100

Approval Date: 9/25/2020
Membership Activities:
 Registered Market Maker, Order Entry & Clearance
 International Tele #

SEC #: 8-53574
 CRD #: 116797

CITIGROUP GLOBAL MARKETS INC.

Tower Building
 388 Greenwich Street
 New York NY 10013
 Tele #: (212) 816-6000

Approval Date: 9/25/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8-8177
 CRD #: 7059

CLEAR STREET LLC

55 Broadway
 New York NY 10006
 Tele #: (646) 738-4066

Approval Date: 12/10/2021
Membership Activities:
 Clearance
 International Tele #

SEC #: 8-69972
 CRD #: 288933

COWEN AND COMPANY, LLC

599 Lexington Avenue -20th Fl.

New York NY 10022

Tele #: (646) 562-1010

Approval Date: 10/12/2020

SEC #: 8- 22522

Membership Activities:

CRD #: 7616

Order Entry & Clearance

International Tele #

CREDIT SUISSE SECURITIES (USA) LLC

11 Madison Avenue - 24th Floor

New York NY 10010

Tele #: (212) 325-2000

Approval Date: 9/25/2020

SEC #: 8- 00422

Membership Activities:

CRD #: 816

Order Entry & Clearance

International Tele #

DRW SECURITIES, L.L.C.

540 West Madison, Ste. 2500

Chicago IL 60661

Tele #: (312) 542-1000

Approval Date: 9/25/2020

SEC #: 8- 51241

Membership Activities:

CRD #: 45908

Order Entry

International Tele #

ELECTRONIC TRANSACTION CLEARING, INC.

660 South Figueroa Street - Suite 1450

Los Angeles CA 90017

Tele #: (213) 402-1570

Approval Date: 9/25/2020

SEC #: 8- 67790

Membership Activities:

CRD #: 146122

Clearance

International Tele #

FIS BROKERAGE & SECURITIES SERVICES LLC

2100 Enterprise Avenue

Geneva IL 60134

Tele #: (630) 482-7100

Approval Date: 9/25/2020

SEC #: 8- 52614

Membership Activities:

CRD #: 104162

Order Entry

International Tele #

G1 EXECUTION SERVICES, LLC

175 W. Jackson Blvd. - Ste. 1700

Chicago IL 60604

Tele #: (312) 362-0404

Approval Date: 9/25/2020

SEC #: 8- 53174

Membership Activities:

CRD #: 111528

Equities Market Maker

International Tele #

GLOBAL EXECUTION BROKERS, LP

401 City Avenue, Ste. 200

Bala Cynwyd PA 19004

Tele #: (610) 617-2600

Approval Date: 9/25/2020

SEC #: 8- 65878

Membership Activities:

CRD #: 126407

Order Entry

International Tele #

GOLDMAN SACHS & CO. LLC

200 West Street

New York NY 10282

Tele #: (212) 902-1000

Approval Date: 9/30/2020

SEC #: 8- 129

Membership Activities:

CRD #: 361

Order Entry & Clearance

International Tele #

GTS SECURITIES LLC

545 Madison Avenue, 15th Fl.

New York NY 10022

Tele #: (212) 715-2830

Approval Date: 3/1/2022

SEC #: 8- 68126

Membership Activities:

CRD #: 149224

Order Entry

International Tele #

HRT FINANCIAL LP

175 Greenwich Street - 76th Floor
 3 World Trade Center
 New York NY 10007
 Tele #: (212) 293-1444

Approval Date: 9/25/2020
Membership Activities:
 Market Maker, Order Entry & Clearance
 International Tele #

SEC #: 8- 68430
 CRD #: 152144

IEX SERVICES LLC

3 World Trade Center
 175 Greenwich Street - 58th Floor
 New York NY 10007
 Tele #:

Approval Date: 9/25/2020
Membership Activities:
 Order Entry
 International Tele #

SEC #: 8- 69280
 CRD #: 167872

IMC-CHICAGO, LLC D/B/A IMC FINANCIAL MARKETS

233 South Wacker Drive, Ste. 4300
 Chicago IL 60606
 Tele #: (312) 244-3300

Approval Date: 9/25/2020
Membership Activities:
 Order Entry
 International Tele #

SEC #: 8- 52600
 CRD #: 104143

INSTINET, LLC

Worldwide Plaza
 309 West 49th Street
 New York NY 10019
 Tele #: (212) 310-9500

Approval Date: 9/25/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8- 23669
 CRD #: 7897

INTERACTIVE BROKERS LLC

One Pickwick Plaza - 2nd Floor
 Greenwich CT 06830
 Tele #: (203) 618-5710

Approval Date: 9/25/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8- 47257
 CRD #: 36418

J.P. MORGAN SECURITIES LLC

383 Madison Avenue
 New York NY 10179
 Tele #: (212) 272-2000

Approval Date: 9/25/2020
Membership Activities:
 Market Maker, Order Entry & Clearance
 International Tele #

SEC #: 8- 35008
 CRD #: 79

JANE STREET CAPITAL, LLC

250 Vesey Street - 5th Floor
 New York NY 10281
 Tele #: (646) 759-6000

Approval Date: 9/25/2020
Membership Activities:
 Market Maker & Order Entry
 International Tele #

SEC #: 8- 52275
 CRD #: 103782

JANE STREET EXECUTION SERVICES, LLC

250 Vesey Street - 5th Floor
 New York NY 10281
 Tele #: (646) 759-6000

Approval Date: 12/30/2021
Membership Activities:
 Order Entry
 International Tele #

SEC #: 8- 69254
 CRD #: 167280

JEFFERIES LLC

520 Madison Avenue - 11th Floor
 New York NY 10022
 Tele #: (212) 284-2300

Approval Date: 9/30/2020
Membership Activities:
 Order Entry & Clearance
 International Tele #

SEC #: 8- 15074
 CRD #: 2347

JUMP TRADING, LLC

600 West Chicago Avenue, Ste. 600

Chicago IL 60654

Tele #: (312) 205-8900

Approval Date: 9/25/2020

SEC #: 8- 52989

Membership Activities:

CRD #: 106124

Order Entry

International Tele #

LATOUR TRADING LLC

148 Lafayette Street - 10th Fl.

New York NY 10013

Tele #: (917) 388-8000

Approval Date: 9/25/2020

SEC #: 8- 68304

Membership Activities:

CRD #: 150887

Order Entry

International Tele #

LIME CAPITAL CORP.

1 Penn Plaza - 16th Floor

New York NY 10119

Tele #: (646) 346-1000

Approval Date: 2/1/2022

SEC #: 8- 27061

Membership Activities:

CRD #: 11826

Order Entry

International Tele #

MERRILL LYNCH PROFESSIONAL CLEARING CORP.

One Bryant Park - 6th Floor

NY1-100-06-01

New York NY 10036

Tele #: (646) 743-1295

Approval Date: 9/25/2020

SEC #: 8- 33359

Membership Activities:

CRD #: 16139

Clearance

International Tele #

MORGAN STANLEY & CO. LLC

1585 Broadway

New York NY 10036

Tele #: (212) 761-4000

Approval Date: 9/25/2020

SEC #: 8- 15869

Membership Activities:

CRD #: 8209

Order Entry & Clearance

International Tele #

NASDAQ EXECUTION SERVICES, LLC

FMC Tower, Level 8

2929 Walnut Street

Philadelphia PA 19104

Tele #: (215) 496-5000

Approval Date: 9/25/2020

SEC #: 8- 37329

Membership Activities:

CRD #: 7270

Exchange Broker Dealer

International Tele #

OLD MISSION CAPITAL, LLC

1 N. Dearborn Street - 8th Floor

Chicago IL 60602

Tele #: (312) 260-3052

Approval Date: 10/1/2021

SEC #: 8- 67867

Membership Activities:

CRD #: 146991

Order Entry

International Tele #

PERSHING LLC

One Pershing Plaza - 10th Fl.

Jersey City NJ 07399

Tele #: (201) 413-2000

Approval Date: 9/25/2020

SEC #: 8- 17574

Membership Activities:

CRD #: 7560

Order Entry & Clearance

International Tele #

PUNDION LLC

230 Park Avenue, 3rd Floor

New York NY 10169

Tele #: (718) 618-4929

Approval Date: 5/24/2021

SEC #: 8- 68784

Membership Activities:

CRD #: 156169

Market Maker & Order Entry

International Tele #

QUANTLAB BROKERAGE, LLC

3 Greenway Plaza - Suite 200
Houston TX 77046
Tele #: (713) 400-5440

Approval Date: 11/12/2021

SEC #: 8- 70274

Membership Activities:

CRD #: 299468

Order Entry
International Tele #

RBC CAPITAL MARKETS LLC

9th Floor
200 Vesey Street
New York NY 10281
Tele #: (212) 858-6008

Approval Date: 9/28/2020

SEC #: 8- 45411

Membership Activities:

CRD #: 31194

Market Maker, Order Entry & Clearance
International Tele #

SANFORD C. BERNSTEIN & CO., LLC

1345 Avenue of the Americas
New York NY 10105
Tele #: (212) 969-1000

Approval Date: 10/12/2020

SEC #: 8- 52942

Membership Activities:

CRD #: 104474

Order Entry
International Tele #

SIMPLEX TRADING, LLC

230 So. LaSalle St., Ste. 4-100
Chicago IL 60604
Tele #: (312) 360-2440

Approval Date: 9/25/2020

SEC #: 8- 68556

Membership Activities:

CRD #: 153585

Equities Market Maker
International Tele #

SUSQUEHANNA SECURITIES, LLC

401 City Avenue, Ste. 220
Bala Cynwyd PA 19004
Tele #: (610) 617-2600

Approval Date: 9/25/2020

SEC #: 8- 47034

Membership Activities:

CRD #: 35874

Order Entry
International Tele #

TRC MARKETS LLC

710 Johnnie Dodds Blvd. - Ste. 300
Mt. Pleasant SC 29464
Tele #: (917) 388-8644

Approval Date: 9/25/2020

SEC #: 8- 69454

Membership Activities:

CRD #: 171272

Order Entry
International Tele #

UBS SECURITIES LLC

1285 Avenue of the Americas
New York NY 10019
Tele #: (203) 719-3000

Approval Date: 9/25/2020

SEC #: 8- 22651

Membership Activities:

CRD #: 7654

Order Entry & Clearance
International Tele #

VIRTU AMERICAS LLC

One Liberty Plaza
165 Broadway
New York NY 10006
Tele #: (800) 544-7508

Approval Date: 9/25/2020

SEC #: 8- 68193

Membership Activities:

CRD #: 149823

Market Maker & Order Entry
International Tele #

WEDBUSH SECURITIES INC.

1000 Wilshire Boulevard, Suite 900
ATTN: COMPLIANCE
Los Angeles CA 90017
Tele #: (213) 688-8090

Approval Date: 1/5/2022

SEC #: 8- 12987

Membership Activities:

CRD #: 877

Clearance
International Tele #

WELLS FARGO SECURITIES, LLC

550 South Tryon Street - 6th Floor
D1086-060
Charlotte NC 28202
Tele #: (704) 410-1913

Approval Date: 1/12/2021
Membership Activities:
Order Entry & Clearance
International Tele #

SEC #: 8- 65876
CRD #: 126292

WOLVERINE EXECUTION SERVICES, LLC

175 W. Jackson Blvd., Ste. 200
Chicago IL 60604
Tele #: (312) 884-4000

Approval Date: 9/25/2020
Membership Activities:
Order Entry
International Tele #

SEC #: 8- 65336
CRD #: 120719

Total BD Firms 47