

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): 12/04/19	OFFICIAL USE ONLY
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			
<input type="checkbox"/> APPLICATION <input checked="" type="checkbox"/> AMENDMENT			
<p>1. State the name of the applicant: MIAX PEARL, LLC</p> <p>2. Provide the applicant's primary street address (Do not use a P.O. Box): 7 Roszel Road, Suite 1A, Princeton, NJ 08540</p> <p>3. Provide the applicant's mailing address (if different):</p> <p>4. Provide the applicant's business telephone and facsimile number: Telephone: 609-897-7300; Facsimile: 609-987-2210</p> <div style="text-align: right;">  19004331 </div> <p>5. Provide the name, title and telephone number of a contact employee: Barbara J. Comly, EVP, General Counsel & Corporate Secretary 609-897-7315</p> <p>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</p> <p>7. Provide the date applicant's fiscal year ends: December 31</p> <p>8. Indicate legal status of applicant: <input type="checkbox"/> Corporation <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Limited Liability Company <input type="checkbox"/> Other (specify):</p> <p>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):</p> <p>(a) Date (MM/DD/YY): 02/11/16 (b) State/Country of formation: Delaware</p> <p>(c) Statute under which applicant was organized: Delaware Limited Liability Company Act, 6 Del. C. 18-1d et seq.</p>			
<p>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.</p>			
Date: December 4, 2019	MIAX PEARL, LLC By:  Barbara J. Comly EVP, General Counsel & Corporate Secretary		
Subscribed and sworn before me this 4 th day of December, 2019.			
 Jane Post Notary Public of the State of New Jersey My Commission Expires October 27, 2024			
This page must always be completed in full with original, manual signature and notarization. Affix notary stamp or seal where applicable.			



Barbara J. Comly
General Counsel

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December 4, 2019

SEC Mail Processing

DEC 05 2019

Washington, DC

VIA FEDERAL EXPRESS

Jeannette Marshall
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 2019-13 to Form 1 Application**

Securities and Exchange Commission
Trading and Markets

Dear Ms. Marshall:

DEC 05 2019

Enclosed for official filing pursuant to Rule 6a-2(a) are an original and two copies of Amendment 2019-13 to the Form 1 Application of PEARL, which includes the following changes:

- Exhibit C – Updated Officers of Miami International Holdings, Inc., Miami International Securities Exchange, LLC, and MIAX Emerald, LLC
- Exhibit J – Updated Officers
- Exhibit M – Updated Member List

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

Very truly yours,

Barbara J. Comly
EVP, General Counsel & Corporate Secretary

Enclosures
cc: Marlene Olsen

Exhibit C

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. § 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. ("Miami Holdings") 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, Miami International Futures Exchange, LLC, MIAX Products, LLC, and M 44 Holdings, LLC and approximately 65% of the outstanding shares of The Bermuda Stock Exchange. 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
Paul Warner	Executive Vice President and Chief Financial Officer
Edward Deitzel	Executive Vice President and Chief Regulatory Officer
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
Amy Neiley	Senior Vice President – Trading Operations and Listings
Roli Bhotika	Vice President – Head of Business Development
Rodney Hester	Vice President – Systems Infrastructure
Shawn Hughes	Vice President – Project Management
James O'Neil	Vice President and Director of Physical Security and Safety
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development

Name	Title
Christopher Solgan	Vice President – Senior Counsel
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Kelly Fitzgerald	Assistant Vice President – Controller
Dimitriy Kotov	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
Jack G. Mondel
William J. O'Brien III
Robert D. Prunetti
Mark F. Raymond
Douglas M. Schafer, Jr.
Paul V. Stahlin
J. Gray Teekell
Christopher L. Whittington
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

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 General Corporation Law (8 Del. C. § 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 June 17, 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 December 1, 2012, and Amended and Restated By-Laws dated May 20, 2016 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
Paul Warner	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	Senior Vice President – Trading Operations and Listings
Roli Bhotika	Vice President – Head of Business Development
Lawrence O’Leary	Vice President – Market Surveillance
Laurence Gardner	Vice President – Regulatory Operations
Rodney Hester	Vice President – Systems Infrastructure
Shawn Hughes	Vice President – Project Management
James O’Neil	Vice President and Director of Physical Security and Safety

Name	Title
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Christopher Solgan	Vice President – Senior Counsel
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Kelly Fitzgerald	Assistant Vice President – Controller
Dimitriy Kotov	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
Talal Jassim Al-Bahar
Michael P. Ameen
Lindsay L. Burbage
Robert Castrignano
Marianne Deane
John DiBacco, Jr.
Kurt M. Eckert
Leslie Florio
Lawrence E. Jaffe
Paul Jiganti
John A. Kinahan
John E. McCormac
Miguel Moratiel
William J. O'Brien IV
Robert D. Prunetti
Joseph Sellitto
Cynthia Schwarzkopf
J. Gray Teekell

Observers
Guy Dowman
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
Kurt M. Eckert
John A. Kinahan
John E. McCormac
William J. O'Brien IV
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. 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 General Corporation Law (8 Del. C. § 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 First Amended and Restated Limited Liability Company Agreement dated May 20, 2011 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
Paul Warner	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
Rodney Hester	Vice President – Systems Infrastructure

Name	Title
Harish Jayabalan	Vice President – Technical Support and Product Specialist
James O’Neil	Vice President and Director of Physical Security and Safety
Tia Toms	Vice President – Administration
Kelly Fitzgerald	Assistant Vice President – Controller

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.

D. MIAX GLOBAL, LLC

1. *Name:* MIAX Global, 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 General Corporation Law (8 Del. C. § 101, et seq), on June 30, 2015.
4. *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.
5. *Brief description of business or functions:* MIAX Global focuses on the company’s trading, technology and other projects primarily based outside of North America, initially focusing on Europe and Latin America.
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 30, 2015 is attached.**
8. *A copy of existing by-laws or corresponding rules or instruments:* **The Limited Liability Company Agreement dated June 30, 2015 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
Paul Warner	Executive Vice President and Chief Financial Officer

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.

E. MIAMI INTERNATIONAL FUTURES EXCHANGE, LLC

1. *Name:* Miami International Futures 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 General Corporation Law (8 Del. C. § 101, et seq), on November 30, 2007.
4. *Brief description of nature and extent of affiliation:* Miami International Futures Exchange, 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 not yet active. Miami International Holdings, Inc. may develop MIAX Futures as a futures exchange under the regulation of the CFTC. If MIAX Futures becomes operational, it will perform functions performed by a futures exchange.
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 17, 2011 is attached.*
8. *A copy of existing by-laws or corresponding rules or instruments: The First Amended and Restated Limited Liability Company Agreement dated May 20, 2011 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 Futures Exchange, LLC

The following persons are the officers of Miami International Futures 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

Directors of Miami International Futures Exchange, LLC

The following persons are the directors of Miami International Futures Exchange, 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. MIAX EMERALD, LLC

1. *Name: MIAX Emerald, 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 General Corporation Law (8 Del. C. § 101, et seq), on January 30, 2018.*
4. *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 Certificate of Formation dated January 30, 2018 is attached.**
8. *A copy of existing by-laws or corresponding rules or instruments:* **The Amended and Restated Limited Liability Company Agreement dated December 21, 2018 and By-Laws dated December 21, 2018 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
Paul Warner	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 & 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	Senior Vice President – Trading Operations and Listings
Roli Bhotika	Vice President – Head of Business Development
Rodney Hester	Vice President – Systems Infrastructure
Shawn Hughes	Vice President – Project Management
Lawrence O’Leary	Vice President – Market Surveillance
Laurence Gardner	Vice President – Regulatory Operations
James O’Neil	Vice President and Director of Physical Security and Safety
Vinay Rao	Vice President – Trading Systems Development

Name	Title
Siddharth Sahoo	Vice President – Trading Systems Development
Christopher Solgan	Vice President – Senior Counsel
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Kelly Fitzgerald	Assistant Vice President – Controller
Dimitriy Kotov	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
Leslie Florio
Kimberly M. Guadagno
Paul Jiganti
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
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.

G. MIAX PRODUCTS, LLC

1. *Name:* MIAX Products, 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:* Illinois, Illinois Limited Liability Company Act, 805 ILCS 180/, on January 25, 2019.
4. *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.
5. *Brief description of business or functions:* Development of financial products.

6. *A copy of the constitution:* Not applicable.
7. *A copy of the articles of incorporation or association including all amendments:* **The Articles of Organization dated January 25, 2019 are attached.**
8. *A copy of existing by-laws or corresponding rules or instruments:* **The Limited Liability Company Agreement dated January 25, 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 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
Paul Warner	Executive Vice President and Chief Financial Officer

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.

H. 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 General Corporation Law (8 Del. C. § 101, et seq), on June 21, 2019.
4. *Brief description of nature and extent of affiliation:* M 44 Holdings, LLC ("M 44") is wholly-owned by Miami International Holdings, Inc., which is the applicant's 100% owner.

5. *Brief description of business or functions:* M 44 is 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 are the officers of M 44 Holdings, LLC:

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
Paul Warner	Executive Vice President & Chief Financial Officer

Directors of M 44 Holdings, LLC

The following persons are the directors of M 44 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.

I. THE BERMUDA STOCK EXCHANGE

1. *Name:* The Bermuda Stock Exchange
Address: 30 Victoria Street, 3F, Hamilton, Bermuda
2. *Form of organization:* A body corporate incorporated pursuant to The Bermuda Stock Exchange Act 1992.
3. *Name of state, statute under which organized and date of incorporation:* Bermuda, The Bermuda Stock Exchange Company Act 1992, on March 10, 1993.

4. *Brief description of nature and extent of affiliation:* Miami International Holdings, Inc., which is the applicant's 100% owner, is the owner of 64.455% of the outstanding shares of The Bermuda Stock Exchange ("BSX").
5. *Brief description of business or functions:* Stock Exchange located in Hamilton, Bermuda.
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 March 10, 1993, is attached.**
8. *A copy of existing by-laws or corresponding rules or instruments:* **The Bye-Laws dated August 24, 2001, are attached.**
9. *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

Directors (Council) of The Bermuda Stock Exchange

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

Directors
David Brown (Chairman)
Jeff Conyers (Deputy Chairman)
Thomas Gallagher
Scott Lines
Michael Neff
Barclay Simmons
Eric Sites
Keith Stock
Alan Swimmer
John Wight
Gregory A. Wojciechowski
Alternate Directors
Alan Marshall (for Keith Stock and Barclay Simmons)
Malcolm Moseley (for Scott Lines)

Committees of The Bermuda Stock Exchange

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

Compensation Committee
David Brown
Jeff Conyers
Michael Neff

Executive Management Committee
David Brown
Jeff Conyers
Scott Lines
Michael Neff

Listing Committee
Dudley Cottingham
Susan Monkman
Sharon Beesley
Miguel DaPonte
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.

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
Paul Warner	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	Senior Vice President – Trading Operations and Listings
Roli Bhotika	Vice President – Head of Business Development
Lawrence O’Leary	Vice President – Market Surveillance
Laurence Gardner	Vice President – Regulatory Operations
Rodney Hester	Vice President – Systems Infrastructure
Shawn Hughes	Vice President – Project Management
James O’Neil	Vice President and Director of Physical Security and Safety
Vinay Rao	Vice President – Trading Systems Development
Siddharth Sahoo	Vice President – Trading Systems Development
Christopher Solgan	Vice President – Senior Counsel
Tia Toms	Vice President – Administration
Gregory Ziegler	Vice President – Senior Counsel
Kelly Fitzgerald	Assistant Vice President – Controller
Dimitriy Kotov	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
Kurt M. Eckert	Industry	Class III – 2020	Partner – Wolverine Trading, LLC
Leslie Florio	Non-Industry/ Independent	Class III – 2020	Board of Trustees – The Hun School of Princeton; President – Maxwell Place Condominium Association
Sebastian Koeling	Industry/Member Representative	Class III – 2020	Chief Executive Officer – Optiver US LLC
Cynthia Schwarzkopf	Non-Industry/ Independent	Class III – 2020	Professional and Philanthropic Public Speaker

Name	Classification	Term of Office	Type of Business
Richard Herr	Industry/Member Representative	Class I – 2021	Managing Director – Sandler O’Neill & Partners, L.P.
Lawrence E. Jaffe	Non-Industry/Independent	Class I – 2021	Attorney
Mark I. Massad	Industry	Class I – 2021	CEO – Dana Holdings BOA, Ltd.
Robert D. Prunetti	Non-Industry/Independent	Class I – 2021	President – Phoenix Ventures, LLC
William T. Bergman	Non-Industry/Independent	Class II – 2022	Vice President and Special Assistant to the President – Temple University
Lindsay L. Burbage	Non-Industry/Independent	Class II – 2022	Attorney
Michael Harrington	Industry	Class II – 2022	Head of Client Relationships – Citadel, LLC
Benjamin Londergan	Industry/Member Representative	Class II – 2022	Former Managing Director Strategic Relationships and Market Ecosystem, PEAK6 Capital Management LLC
John E. McCormac	Non-Industry/Independent	Class II – 2022	Township Mayor – Woodbridge, New Jersey; Former New Jersey State Treasurer

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
Richard Herr	Industry/Member Representative

TECHNOLOGY COMMITTEE	
Name	Classification
Leslie Florio (Chair)	Non-Industry/Independent
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:

Attached is a list of the members of the Exchange as of December 2, 2019, including the information set forth in items 1-6 above.

MEMBER FIRMS

ABN AMRO CLEARING CHICAGO LLC

175 West Jackson Blvd., Ste. 2050
Chicago IL 60604

Tele #: (312) 604-8000

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Clearance

International Tele #:

AKUNA SECURITIES LLC

333 S. Wabash Avenue, Suite 2600
Chicago IL 60604

Tele #: (312) 994-4640

Approval Date: 4/17/2017

PEARL Membership Activities:

Registered Market Maker

International Tele #:

AMS DERIVATIVES B.V.

Strawinskylaan 3095
Amsterdam, 1077ZX
Netherlands

Tele #:

Approval Date: 10/26/2018

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow

International Tele #: +31 20 708 7748

APEX CLEARING CORPORATION

One Dallas Center
350 N. St. Paul, Suite 1300
Dallas TX 75201

Tele #: (214) 765-1100

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Clearance

International Tele #:

BARCLAYS CAPITAL INC.

745 Seventh Avenue
New York NY 10019

Tele #: (212) 526-7000

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow/Clearance

International Tele #:

BOFA SECURITIES, INC.

One Bryant Park
222 Broadway
New York NY 10038

Tele #: (646) 743-2734

Approval Date: 11/1/2018

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

International Tele #:

CITADEL SECURITIES LLC

131 South Dearborn Street - 32nd Floor
Chicago IL 60603

Tele #: (312) 395-2100

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow

International Tele #:

CITIGROUP GLOBAL MARKETS INC.

390-388 Greenwich Street
New York NY 10013

Tele #: (212) 816-6000

Approval Date: 5/1/2019

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

International Tele #:

CREDIT SUISSE SECURITIES (USA) LLC

11 Madison Avenue - 24th Floor
New York NY 10010

Tele #: (212) 325-2000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

CUTLER GROUP, LP

101 Montgomery Street, Ste. 700
San Francisco CA 94104

Tele #: (415) 293-3956

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow

DASH FINANCIAL TECHNOLOGIES LLC

311 S. Wacker Drive, Ste. 1000
Chicago IL 60606

Tele #: (847) 550-1730

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

DEUTSCHE BANK SECURITIES INC.

60 Wall Street
New York NY 10005

Tele #: (212) 250-2500

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

DRW SECURITIES, L.L.C.

540 West Madison, Ste. 2500
Chicago IL 60661

Tele #: (312) 542-3231

International Tele #:

Approval Date: 11/14/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow

GLOBAL EXECUTION BROKERS, LP

401 City Avenue, Ste. 200
Bala Cynwyd PA 19004

Tele #: (610) 617-2600

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow

GOLDMAN SACHS & CO. LLC

200 West Street
New York NY 10282

Tele #: (212) 902-1000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

GROUP ONE TRADING LP

425 S. Financial Place - Ste. 3400
Chicago IL 60605

Tele #: (312) 347-8864

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow

HRT FINANCIAL LLC

4 World Trade Center
150 Greenwich Street - 57th Floor
New York NY 10007

Tele #: (212) 293-1444

International Tele #:

Approval Date: 4/5/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow

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

233 South Wacker Drive, Ste. #4300
Chicago IL 60606

Tele #: (312) 244-3300

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Registered Market Maker

INSTINET, LLC

Worldwide Plaza
309 West 49th Street
New York NY 10019

Tele #: (212) 310-9500

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Electronic Exch. Member: Order Flow/Clearance

INTERACTIVE BROKERS LLC

One Pickwick Plaza - 2nd Floor
Greenwich CT 06830

Tele #: (203) 618-5710

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Electronic Exch. Member: Order Flow/Clearance

J.P. MORGAN SECURITIES LLC

383 Madison Avenue
New York NY 10179

Tele #: (201) 595-8471

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Electronic Exch. Member: Order Flow/Clearance

JANE STREET CAPITAL, LLC

250 Vesey Street - 6th Floor
New York NY 10281

Tele #: (646) 759-6000

International Tele #:

Approval Date: 4/2/2018

PEARL Membership Activities:
Electronic Exch. Member: Order Flow

JANE STREET OPTIONS, LLC

250 Vesey Street - 6th Floor
New York NY 10281

Tele #: (646) 759-6000

International Tele #:

Approval Date: 4/2/2018

PEARL Membership Activities:
Electronic Exch. Member: Order Flow

JEFFERIES LLC

520 Madison Avenue - 11th Floor
New York NY 10022

Tele #: (212) 284-2300

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Electronic Exch. Member: Order Flow/Clearance

JUMP TRADING, LLC

600 West Chicago Avenue, Ste. 825
Chicago IL 60654

Tele #: (312) 205-8900

International Tele #:

Approval Date: 2/11/2019

PEARL Membership Activities:
Registered Market Maker

MATRIX EXECUTIONS, LLC

135 S. LaSalle Street, Ste. 300
Chicago IL 60603

Tele #: (312) 334-8000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:
Electronic Exch. Member: Order Flow

MERRILL LYNCH PROFESSIONAL CLEARING CORP.

One Bryant Park - 6th Floor
NY1-100-06-01
New York NY 10036

Tele #: (646) 743-1295

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Clearance

MORGAN STANLEY & CO. LLC

1585 Broadway
New York NY 10036

Tele #: (212) 761-4000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow/Clearance

OPTIVER US LLC

130 E. Randolph Street, Ste. 1300
Chicago IL 60601

Tele #: (312) 821-9500

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker

PERSHING LLC

One Pershing Plaza - 10th Fl.
Jersey City NJ 07399

Tele #: (201) 413-2000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

SIMPLEX TRADING, LLC

230 So. LaSalle St., Ste. 4-100
Chicago IL 60604

Tele #: (312) 360-2440

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow

SUSQUEHANNA INVESTMENT GROUP

401 City Avenue, Ste. 201
Bala Cynwyd PA 19004

Tele #: (610) 617-2600

International Tele #:

Approval Date: 3/1/2019

PEARL Membership Activities:

Registered Market Maker

SUSQUEHANNA SECURITIES

401 City Avenue, Ste. 220
Bala Cynwyd PA 19004

Tele #: (610) 617-2600

International Tele #:

Approval Date: 3/1/2019

PEARL Membership Activities:

Registered Market Maker

TWO SIGMA SECURITIES, LLC

100 Avenue of the Americas - 2nd Fl.
New York NY 10013

Tele #: (212) 625-5700

International Tele #:

Approval Date: 9/12/2017

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow

UBS SECURITIES LLC

1285 Avenue of the Americas
New York NY 10019

Tele #: (203) 719-3000

International Tele #:

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

VIRTU AMERICAS LLC165 Broadway
New York NY 10006

Tele #: (800) 544-7508

Approval Date: 10/1/2019

PEARL Membership Activities:

Registered Market Maker/EEM: Order Flow/Clearance

International Tele #:

VOLANT EXECUTION, LLC233 S. Wacker Drive, Ste. 4040
Chicago IL 60606

Tele #: (312) 692-5000

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

International Tele #:

WEDBUSH SECURITIES INC.1000 Wilshire Boulevard, Suite 900
ATTN: Business Conduct
Los Angeles CA 90017

Tele #: (213) 688-8090

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Clearance

International Tele #:

WELLS FARGO SECURITIES, LLC550 South Tryon Street - 6th Floor
D1086-060
Charlotte NC 28202

Tele #: (704) 715-6133

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

International Tele #:

WOLVERINE EXECUTION SERVICES, LLC175 W. Jackson Blvd., Ste. 200
Chicago IL 60604

Tele #: (312) 884-4000

Approval Date: 2/6/2017

PEARL Membership Activities:

Electronic Exch. Member: Order Flow/Clearance

International Tele #:

WOLVERINE TRADING, LLC175 W. Jackson Blvd., Ste. 200
Chicago IL 60604

Tele #: (312) 884-3490

Approval Date: 2/6/2017

PEARL Membership Activities:

Registered Market Maker

International Tele #:

Total Firms 41