

Form 1  
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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):

01/09/2020

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

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):

SEC Mail Processing  
JAN 10 2020  
Washington, DC  
Securities and Exchange Commission  
Trading and Markets

JAN 10 2020  
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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. 18-1d 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: January 9, 2020

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

Subscribed and sworn before me this 9<sup>th</sup> day of January, 2020.

Jane Post  
Jane Post  
Notary Public of the State of New Jersey  
My Commission Expires October 27, 2024



20004806

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

7 Roszel Road, Suite 1A  
Princeton, New Jersey 08540  
T 609 897 7300  
F 609 987 2210  
bcomly@miami-holdings.com

SEC Mail Processing

JAN 10 2020

January 9, 2020

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

Securities and Exchange Commission  
Trading and Markets

JAN 10 2020

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**Re: MIAX PEARL, LLC ("PEARL")  
Amendment 2020-1 to Form 1 Application**

Dear Ms. Marshall:

Enclosed for official filing pursuant to Rule 6a-2(a) are an original and two copies of Amendment 2020-1 to the Form 1 Application of PEARL, which includes the following changes:

Exhibit C – Updated Officers of Miami International Holdings, Inc., Miami International Futures Exchange, LLC, and MIAX Global, LLC

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 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.:

<b>Name</b>	<b>Title</b>
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
Mark Wetjen	Executive Vice President, Futures and Innovative Products and Executive Regulatory Liaison 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

<b>Name</b>	<b>Title</b>
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 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.:

<b>Name</b>
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.:

<b>Name</b>
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.:

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
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

<b>Name</b>	<b>Title</b>
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 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:

<b>Directors</b>
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

<b>Observers</b>
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:

<b>Audit Committee</b>
Robert D. Prunetti (Chair)
Michael P. Ameen
John E. McCormac

<b>Compensation Committee</b>
J. Gray Teekell (Chair)
Robert D. Prunetti
Cynthia Schwarzkopf

<b>Regulatory Oversight Committee</b>
Lindsay L. Burbage (Chair)
Leslie Florio
Lawrence E. Jaffe

<b>Appeals Committee</b>
Lawrence Jaffe (Chair)
Robert Castrignano
Kurt M. Eckert

<b>Technology Committee</b>
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:

<b>Name</b>	<b>Title</b>
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

<b>Name</b>	<b>Title</b>
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:

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
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
Gregory A. Wojciechowski	President

**Directors of MIAX Global, LLC**

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

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
Thomas P. Gallagher	Chairman
Mark Wetjen	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:

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
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

<b>Name</b>	<b>Title</b>
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
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:

<b>Name</b>
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:

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

<b>Compensation Committee</b>
Robert D. Prunetti (Chair)
Marianne Deane
Joseph M. Kyrillos Jr.

<b>Regulatory Oversight Committee</b>
Lindsay L. Burbage (Chair)
Leslie Florio
Kimberly M. Guadagno

<b>Appeals Committee</b>
Marianne Deane (Chair)
Kurt M. Eckert
Paul Jiganti

<b>Technology Committee</b>
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:

<b>Name</b>	<b>Title</b>
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:

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
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:

<b>Name</b>
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:

<b>Name</b>	<b>Title</b>
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:

<b>Directors</b>
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
<b>Alternate Directors</b>
Alan Marshall (for Keith Stock and Barclay Simmons)
Malcolm Moseley (for Scott Lines)

**Committees of The Bermuda Stock Exchange**

<b>Business Development Committee</b>
Eric Sites
Jeff Conyers
Michael Neff
Keith Stock
Gregory A. Wojciechowski

<b>Compensation Committee</b>
David Brown
Jeff Conyers
Michael Neff

<b>Executive Management Committee</b>
David Brown
Jeff Conyers
Scott Lines
Michael Neff

<b>Listing Committee</b>
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.