

|                                       |                                                                                                                                                                                                                                                                                                    |                                           |                         |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|
| Form 1<br>Page 1<br>Execution<br>Page | <b>UNITED STATES SECURITIES AND EXCHANGE COMMISSION</b><br><b>WASHINGTON, D.C. 20549</b><br><b>APPLICATION FOR, AND AMENDMENTS TO APPLICATION FOR, REGISTRATION</b><br><b>AS A NATIONAL SECURITIES EXCHANGE OR EXEMPTION FROM REGISTRATION</b><br><b>PURSUANT TO SECTION 5 OF THE EXCHANGE ACT</b> | Date filed<br>(MM/DD/YY):<br><br>05/19/17 | OFFICIAL<br>USE<br>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 5-A, 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 5-A  
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):

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.

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Washington DC  
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**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: May 19, 2017  
By: Barbara J. Comly  
Barbara J. Comly  
EVP, General Counsel & Corporate Secretary  
Securities and Exchange

Subscribed and sworn before me this 19<sup>th</sup> day of May, 2017.

Jane Post  
Jane Post  
Notary Public of the State of New Jersey  
My Commission Expires October 27, 2019

MAY 22 2017  
**RECEIVED**

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

**MIAX PEARL, LLC**  
**(“PEARL”)**

**Form 1 Amendment 2017-05**  
***Annual Filing***

**May 19, 2017**

|                  |                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------|
| <b>EXHIBIT D</b> | Financial statements for each subsidiary or affiliate of the exchange.                           |
| <b>EXHIBIT I</b> | Audited financial statements of the applicant for the latest fiscal year.                        |
| <b>EXHIBIT K</b> | Shareholders owning 5% or more of the applicant.                                                 |
| <b>EXHIBIT M</b> | List of members of the exchange.                                                                 |
| <b>EXHIBIT N</b> | Schedule of securities listed or traded pursuant to unlisted trading privileges on the exchange. |

## **EXHIBIT D**

### **Exhibit Request:**

**For each subsidiary or affiliate of the exchange, provide unconsolidated financial statements for the latest fiscal year. Such financial statements shall consist, at a minimum, of a balance sheet and an income statement with such footnotes and other disclosures as are necessary to avoid rendering the financial statements misleading. If any affiliate or subsidiary is required by another Commission rule to submit annual financial statements, a statement to that effect, with a citation to the other Commission rule, may be provided in lieu of the financial statements required here.**

### **Response:**

1. Unaudited unconsolidated financial statements of Miami International Holdings, Inc. as of December 31, 2016 are attached.
2. Audited unconsolidated financial statements of Miami International Securities Exchange, LLC as of December 31, 2016 are attached.
3. Unaudited unconsolidated financial statements of Miami International Technologies, LLC as of December 31, 2016 are attached.
4. Miami International Futures Exchange, LLC and MIAX Global, LLC are not yet active and financial statements are not available for these companies.

**MIAMI INTERNATIONAL HOLDINGS, INC.**

**Financial Statements  
December 31, 2016 and 2015**

**(Unaudited)**

**MIAMI INTERNATIONAL HOLDINGS, INC.**  
**UNCONSOLIDATED BALANCE SHEETS**  
**(UNAUDITED)**

|                                                                                                                                                                                                                                                                                                                                 | <b>2016</b>           | <b>2015</b>           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| <b>ASSETS</b>                                                                                                                                                                                                                                                                                                                   |                       |                       |
| <b>CURRENT ASSETS</b>                                                                                                                                                                                                                                                                                                           |                       |                       |
| Cash and cash equivalents                                                                                                                                                                                                                                                                                                       | \$ 407,030            | \$ 444,357            |
| Prepaid and other current assets                                                                                                                                                                                                                                                                                                | 1,783,546             | 605,468               |
| Due from subsidiaries (to MIH)                                                                                                                                                                                                                                                                                                  | 301,266,769           | 233,000,989           |
| Total current assets                                                                                                                                                                                                                                                                                                            | 303,457,345           | 234,050,814           |
| Fixed assets, net of depreciation and amortization                                                                                                                                                                                                                                                                              | 5,343,477             | 5,283,061             |
| Other assets                                                                                                                                                                                                                                                                                                                    | 527,150               | 13,919                |
| Total assets                                                                                                                                                                                                                                                                                                                    | <b>\$ 309,327,972</b> | <b>\$ 239,347,794</b> |
| <b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>                                                                                                                                                                                                                                                                                     |                       |                       |
| <b>CURRENT LIABILITIES</b>                                                                                                                                                                                                                                                                                                      |                       |                       |
| Accounts payable and other liabilities                                                                                                                                                                                                                                                                                          | \$ 2,476,851          | \$ 3,218,894          |
| Accrued compensation payable                                                                                                                                                                                                                                                                                                    | 1,445,166             | 1,405,304             |
| Current debt                                                                                                                                                                                                                                                                                                                    | 34,465,938            | 10,894,495            |
| Total current liabilities                                                                                                                                                                                                                                                                                                       | 38,387,955            | 15,518,693            |
| Long term debt                                                                                                                                                                                                                                                                                                                  | 2,085,973             | -                     |
| Warrants with puttable shares (Cash obligation December 31, 2016 and 2015, \$0)                                                                                                                                                                                                                                                 | 29,105,070            | 27,532,476            |
| Total liabilities                                                                                                                                                                                                                                                                                                               | 69,578,998            | 43,051,169            |
| <b>SHAREHOLDERS' EQUITY</b>                                                                                                                                                                                                                                                                                                     |                       |                       |
| Preferred stock - par value \$0.001 (25,000,000 authorized; 6,000 Series B issued and outstanding)                                                                                                                                                                                                                              | 6                     | 6                     |
| Common stock - voting and nonvoting, par value \$0.001 (600,000,000 authorized (voting 400,000,000, nonvoting 200,000,000); 61,953,104 issued and outstanding at December 31, 2016 (voting 58,588,180, nonvoting 3,364,924) and 60,189,136 issued and outstanding at December 31, 2015 (voting 57,549,212, nonvoting 2,639,924) | 61,953                | 60,189                |
| Additional paid in capital in excess of par                                                                                                                                                                                                                                                                                     | 392,910,230           | 329,568,810           |
| Accumulated deficit                                                                                                                                                                                                                                                                                                             | (153,223,215)         | (133,332,380)         |
| Total shareholders' equity                                                                                                                                                                                                                                                                                                      | 239,748,974           | 196,296,625           |
| Total liabilities and shareholders' equity                                                                                                                                                                                                                                                                                      | <b>\$ 309,327,972</b> | <b>\$ 239,347,794</b> |

**MIAMI INTERNATIONAL HOLDINGS, INC.**  
**UNCONSOLIDATED STATEMENTS OF OPERATIONS**  
**(UNAUDITED)**

|                                                                    | <u>Years Ended December 31,</u> |                        |
|--------------------------------------------------------------------|---------------------------------|------------------------|
|                                                                    | <u>2016</u>                     | <u>2015</u>            |
| <b>REVENUES</b>                                                    |                                 |                        |
| Other revenue                                                      | \$ -                            | \$ -                   |
| Total revenues                                                     | <u>-</u>                        | <u>-</u>               |
| <b>OPERATING EXPENSES</b>                                          |                                 |                        |
| Employee compensation and benefits                                 | 5,961,421                       | 5,031,243              |
| Information technology and communication costs                     | 13,577                          | 175,080                |
| Depreciation and amortization                                      | 823,788                         | 334,116                |
| Occupancy costs                                                    | 373,148                         | 350,219                |
| Professional services                                              | 1,392,587                       | 1,556,491              |
| Financial and banking consulting services                          | 1,168,841                       | 521,948                |
| Share based compensation to third parties                          | 848,568                         | 770,612                |
| Directors' fees                                                    | 439,639                         | 519,351                |
| Other                                                              | 917,953                         | 718,750                |
| Total operating expenses                                           | <u>11,939,522</u>               | <u>9,977,810</u>       |
| <b>OPERATING LOSS</b>                                              | <u>(11,939,522)</u>             | <u>(9,977,810)</u>     |
| Interest expense                                                   | (3,326,128)                     | (2,243,136)            |
| Amortization of debt discount and beneficial<br>conversion feature | (314,605)                       | (1,181,506)            |
| Financing related costs                                            | <u>(4,310,580)</u>              | <u>(7,907,498)</u>     |
| <b>NET LOSS</b>                                                    | <u>\$ (19,890,835)</u>          | <u>\$ (21,309,950)</u> |

**MIAMI INTERNATIONAL HOLDINGS, INC.**  
**UNCONSOLIDATED STATEMENTS OF CASH FLOWS**  
**(UNAUDITED)**

|                                                                            | <u>Years Ended December 31,</u> |                     |
|----------------------------------------------------------------------------|---------------------------------|---------------------|
|                                                                            | <u>2016</u>                     | <u>2015</u>         |
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                |                                 |                     |
| Net loss                                                                   | \$ (19,890,835)                 | \$ (21,309,950)     |
| Adjustments to reconcile net loss to net cash used in operating activities |                                 |                     |
| Amortization of debt discount                                              | 311,955                         | 387,976             |
| Amortization of beneficial conversion                                      | 2,650                           | 793,529             |
| Debt conversion expense                                                    | 182,065                         | 1,979,652           |
| Deferred interest                                                          | 1,792,285                       | -                   |
| Financing related costs - letter of credit                                 | 3,212,695                       | 401,587             |
| Depreciation expense                                                       | 823,788                         | 334,116             |
| Share based compensation expense                                           | 3,483,845                       | 4,604,524           |
| Changes in operating assets and liabilities                                |                                 |                     |
| Due from subsidiaries (to MIH)                                             | (68,265,780)                    | (52,031,266)        |
| Share based compensation expense allocated to subsidiaries                 | 50,415,239                      | 48,017,183          |
| Prepaid and other current assets                                           | (1,178,078)                     | (209,450)           |
| Other assets                                                               | (513,231)                       | (1,032)             |
| Accounts payable and other liabilities                                     | (742,043)                       | (638,500)           |
| Accrued compensation payable                                               | 39,861                          | 25,826              |
| Net cash used in operating activities                                      | <u>(30,325,584)</u>             | <u>(17,645,805)</u> |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                |                                 |                     |
| Capital expenditures                                                       | <u>(211,360)</u>                | <u>(997,715)</u>    |
| Net cash used in investing activities                                      | <u>(211,360)</u>                | <u>(997,715)</u>    |
| <b>CASH FLOWS FROM FINANCING ACTIVITIES</b>                                |                                 |                     |
| Proceeds from debt                                                         | 42,240,994                      | 18,167,102          |
| Repayments of term debt                                                    | (13,888,857)                    | (15,559,984)        |
| Proceeds from purchase of warrants and warrant extension                   | 17,480                          | -                   |
| Proceeds from issuance of series B preferred stock                         | -                               | 59,002              |
| Proceeds from issuance of common stock                                     | <u>2,130,000</u>                | <u>16,419,330</u>   |
| Net cash provided by financing activities                                  | <u>30,499,617</u>               | <u>19,085,450</u>   |
| Increase (decrease) in cash and cash equivalents                           | (37,327)                        | 441,930             |
| Cash and cash equivalents at beginning of year                             | <u>444,357</u>                  | <u>2,427</u>        |
| Cash and cash equivalents at end of year                                   | <u>\$ 407,030</u>               | <u>\$ 444,357</u>   |
| Cash paid during the year for interest                                     | <u>\$ 1,002,059</u>             | <u>\$ 1,252,462</u> |
| Conversion of short term loan to common stock                              | <u>\$ 2,375,000</u>             | <u>\$ 8,685,434</u> |

**MIAMI INTERNATIONAL HOLDINGS, INC.**  
**UNCONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY**  
**December 31, 2016 and 2015**  
**(UNAUDITED)**

|                                                                                                      | Preferred Stock - Series B | Common Stock -       | Additional     | Accumulated      | Total            |
|------------------------------------------------------------------------------------------------------|----------------------------|----------------------|----------------|------------------|------------------|
|                                                                                                      | Shares                     | Voting and Nonvoting | Paid in        | Deficit          | Shareholders     |
|                                                                                                      | Amount                     | Shares               | Capital        |                  | Equity (Deficit) |
| <b>Balance, December 31, 2014</b>                                                                    | \$ -                       | \$ 54,190,904        | \$ 275,617,741 | \$ (112,022,430) | \$ 163,649,502   |
| Issuance of common stock                                                                             | -                          | 1,858,335            | 1,858          | -                | 11,052,271       |
| Issuance of warrants with common stock                                                               | -                          | -                    | 97,679         | -                | 97,679           |
| Issuance of common stock - warrant exercise price reduction offering                                 | -                          | 1,609,989            | 1,610          | -                | 5,269,380        |
| Issuance of warrants with warrant exercise price reduction offering                                  | -                          | -                    | 368,439        | -                | 368,439          |
| Issuance of common stock - debt conversions                                                          | -                          | 1,999,367            | 1,999          | -                | 8,685,434        |
| Issuance of common stock - short-term debt                                                           | -                          | 175,874              | 176            | -                | 695,589          |
| Issuance of warrants with short-term debt, short-term debt amendments or letter of credit            | -                          | -                    | 1,529,796      | -                | 1,529,796        |
| Beneficial conversion feature                                                                        | -                          | -                    | 531,624        | -                | 531,624          |
| Debt conversion expense                                                                              | -                          | -                    | 1,979,652      | -                | 1,979,652        |
| Warrants with puttable shares                                                                        | -                          | -                    | (27,532,476)   | -                | (27,532,476)     |
| Employee stock transactions                                                                          | 6,000                      | 4,667                | 58,991         | -                | 59,002           |
| Share based compensation - issuance of common stock net of forfeitures for employees and consultants | -                          | 350,000              | 3,199,594      | -                | 3,199,944        |
| Share based compensation - issuance of warrants - common stock                                       | -                          | 704,580              | 704,580        | -                | 704,580          |
| Share based compensation - issuance of warrants - strategic investors                                | -                          | -                    | 42,443,153     | -                | 42,443,153       |
| Share based compensation - issuance of options net of forfeitures                                    | -                          | -                    | 4,873,006      | -                | 4,873,006        |
| Net loss                                                                                             | -                          | -                    | -              | (21,309,950)     | (21,309,950)     |
| <b>Balance, December 31, 2015</b>                                                                    | 6,000                      | 60,189,136           | 329,568,810    | (133,332,380)    | 196,296,625      |
| Issuance of common stock                                                                             | -                          | 400,000              | 1,740,513      | -                | 1,740,913        |
| Issuance of warrants or warrant extensions                                                           | -                          | -                    | 17,480         | -                | 17,480           |
| Issuance of warrants with common stock                                                               | -                          | -                    | 259,087        | -                | 259,087          |
| Issuance of common stock - warrant exercise price reduction offering                                 | -                          | 50,000               | 129,950        | -                | 130,000          |
| Issuance of common stock - debt conversions                                                          | -                          | 475,000              | 2,374,525      | -                | 2,375,000        |
| Issuance of common stock - debt                                                                      | -                          | 103,968              | 413,344        | -                | 413,448          |
| Issuance of warrants with debt, debt amendments or letter of credit                                  | -                          | -                    | 5,488,871      | -                | 5,488,871        |
| Beneficial conversion feature                                                                        | -                          | -                    | 395,845        | -                | 395,845          |
| Debt conversion expense                                                                              | -                          | -                    | 182,065        | -                | 182,065          |
| Warrants with puttable shares                                                                        | -                          | -                    | (1,572,594)    | -                | (1,572,594)      |
| Share based compensation - issuance of common stock net of forfeitures for employees and consultants | -                          | 735,000              | 3,389,190      | -                | 3,389,925        |
| Share based compensation - issuance of warrants - common stock                                       | -                          | -                    | 706,996        | -                | 706,996          |
| Share based compensation - issuance of warrants - strategic investors                                | -                          | -                    | 44,178,911     | -                | 44,178,911       |
| Share based compensation - issuance of options net of forfeitures                                    | -                          | -                    | 5,637,237      | -                | 5,637,237        |
| Net loss                                                                                             | -                          | -                    | -              | (19,890,835)     | (19,890,835)     |
| <b>Balance, December 31, 2016</b>                                                                    | 6,000                      | 61,953,104           | \$ 392,910,230 | \$ (153,223,215) | \$ 239,749,974   |

Financial Statements and Report of  
Independent Certified Public Accountants

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**

December 31, 2016 and 2015

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

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## REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Board of Directors

**Miami International Securities Exchange, LLC**

We have audited the accompanying financial statements of Miami International Securities Exchange, LLC (the "Company"), which comprise the balance sheets as of December 31, 2016 and 2015, and the related statements of operations and member's deficit, and cash flows for the years then ended, and the related notes to the financial statements.

### Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Miami International Securities Exchange, LLC as of December 31, 2016 and 2015 and the results of its operations and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of matter

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 1 to the financial statements, the Company has incurred a substantial cumulative loss since the date of inception and while its operations are generating revenue, they are not yet cash flow positive. These factors, among others, raise substantial doubt about the Company's ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 1. The financial statements do not include any adjustments that might result from the outcome of this uncertainty. Our opinion is not modified with respect to this matter.

*Grant Thornton LLP*

Iselin, New Jersey  
May 4, 2017

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

## Balance Sheets

December 31, 2016 and 2015

|                                                    | <u>2016</u>          | <u>2015</u>          |
|----------------------------------------------------|----------------------|----------------------|
| <b>ASSETS</b>                                      |                      |                      |
| <b>CURRENT ASSETS</b>                              |                      |                      |
| Cash and cash equivalents                          | \$ 166,085           | \$ 1,249,762         |
| Accounts receivable                                | 5,789,855            | 5,703,071            |
| Marketing fees receivable                          | 2,477,310            | 2,825,576            |
| Prepaid and other current assets                   | <u>2,008,463</u>     | <u>2,517,184</u>     |
| Total current assets                               | 10,441,713           | 12,295,593           |
| Fixed assets, net of depreciation and amortization | 5,350,480            | 8,473,236            |
| Internally developed software, net of amortization | 12,166,245           | 10,140,133           |
| Other assets                                       | <u>1,173,554</u>     | <u>1,590,670</u>     |
| Total assets                                       | <u>\$ 29,131,992</u> | <u>\$ 32,499,632</u> |
| <b>LIABILITIES AND MEMBER'S EQUITY</b>             |                      |                      |
| <b>CURRENT LIABILITIES</b>                         |                      |                      |
| Accounts payable and other liabilities             | \$ 3,285,824         | \$ 3,729,050         |
| Marketing fees payable                             | 2,502,653            | 2,864,782            |
| Accrued compensation payable                       | 1,412,887            | 3,600,047            |
| Current debt                                       | 3,412,034            | 4,579,654            |
| Deferred transaction revenues                      | -                    | 250,000              |
| Due to MIH                                         | <u>266,199,957</u>   | <u>231,175,417</u>   |
| Total current liabilities                          | 276,813,355          | 246,198,950          |
| Long term debt                                     | <u>311,448</u>       | <u>2,790,362</u>     |
| Total liabilities                                  | 277,124,803          | 248,989,312          |
| <b>DEFICIT IN MEMBER'S EQUITY</b>                  |                      |                      |
| Accumulated losses                                 | <u>(247,992,811)</u> | <u>(216,489,680)</u> |
| Total member's deficit                             | <u>(247,992,811)</u> | <u>(216,489,680)</u> |
| Total liabilities and deficit in member's equity   | <u>\$ 29,131,992</u> | <u>\$ 32,499,632</u> |

*The accompanying notes are an integral part of these financial statements.*

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Statements of Operations and Member's Deficit**  
**December 31, 2016 and 2015**

|                                                                  | <b>Years Ended December 31,</b> |                         |
|------------------------------------------------------------------|---------------------------------|-------------------------|
|                                                                  | <b>2016</b>                     | <b>2015</b>             |
| REVENUES                                                         |                                 |                         |
| Transaction fees                                                 | \$ 48,909,702                   | \$ 46,626,922           |
| Access fees                                                      | 12,402,801                      | 8,823,192               |
| Regulatory fees                                                  | 18,422,971                      | 15,839,953              |
| Market data fees                                                 | 5,616,733                       | 5,862,421               |
| Other revenue                                                    | <u>1,594,737</u>                | <u>1,506,221</u>        |
| Total revenues                                                   | 86,946,944                      | 78,658,709              |
| COST OF REVENUES                                                 |                                 |                         |
| Transaction rebates                                              | <u>(32,171,844)</u>             | <u>(28,748,068)</u>     |
| NET REVENUES                                                     | <u>54,775,100</u>               | <u>49,910,641</u>       |
| OPERATING EXPENSES INCURRED DIRECTLY OR<br>ALLOCATED FROM PARENT |                                 |                         |
| Employee compensation and benefits                               | 15,565,146                      | 24,297,395              |
| Information technology and communication costs                   | 5,220,795                       | 5,943,702               |
| Depreciation and amortization                                    | 7,298,309                       | 9,226,932               |
| Occupancy costs                                                  | 801,195                         | 1,336,795               |
| Professional services                                            | 143,803                         | 630,388                 |
| Regulatory services fees                                         | 1,363,146                       | 1,173,860               |
| Financial and banking consulting services                        | 246,342                         | 269,020                 |
| Trading operations costs                                         | 6,469,016                       | 5,289,859               |
| Share based compensation to third parties                        | 28,600                          | 23,931                  |
| Directors' fees                                                  | 1,163,390                       | 1,374,840               |
| Other                                                            | <u>1,815,974</u>                | <u>2,243,683</u>        |
| Total operating expenses                                         | <u>40,115,716</u>               | <u>51,810,405</u>       |
| OPERATING PROFIT/ (LOSS)                                         | <u>14,659,384</u>               | <u>(1,899,764)</u>      |
| Interest expense                                                 | (571,327)                       | (613,828)               |
| Financing related costs                                          | <u>(45,591,188)</u>             | <u>(42,629,494)</u>     |
| NET LOSS                                                         | <u>(31,503,131)</u>             | <u>(45,143,086)</u>     |
| Member's deficit at beginning of year                            | <u>(216,489,680)</u>            | <u>(171,346,594)</u>    |
| Member's deficit at end of year                                  | <u>\$ (247,992,811)</u>         | <u>\$ (216,489,680)</u> |

*The accompanying notes are an integral part of these financial statements.*

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Statements of Cash Flows**  
**December 31, 2016 and 2015**

|                                                                                | <u>Years Ended December 31,</u> |                     |
|--------------------------------------------------------------------------------|---------------------------------|---------------------|
|                                                                                | <u>2016</u>                     | <u>2015</u>         |
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                    |                                 |                     |
| Net loss                                                                       | \$ (31,503,131)                 | \$ (45,143,086)     |
| Depreciation and amortization                                                  | 7,298,309                       | 9,226,932           |
| Adjustments to reconcile net loss to net cash provided by operating activities |                                 |                     |
| Changes in operating assets and liabilities                                    |                                 |                     |
| Accounts receivable                                                            | (86,784)                        | (2,454,621)         |
| Marketing fees receivable                                                      | 348,266                         | (437,735)           |
| Prepaid and other current assets                                               | 508,720                         | (330,372)           |
| Other assets                                                                   | 116,148                         | 69,230              |
| Accounts payable and other liabilities                                         | (443,226)                       | (2,283,659)         |
| Marketing fees payable                                                         | (362,129)                       | 423,733             |
| Accrued compensation payable                                                   | (2,187,159)                     | 484,289             |
| Deferred transaction revenue                                                   | (250,000)                       | 36,020              |
| Due to MIH                                                                     | 35,024,540                      | 50,205,694          |
| Net cash provided by operating activities                                      | <u>8,463,554</u>                | <u>9,796,425</u>    |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                    |                                 |                     |
| Capital expenditures                                                           | <u>(4,861,162)</u>              | <u>(5,572,857)</u>  |
| Net cash used in investing activities                                          | <u>(4,861,162)</u>              | <u>(5,572,857)</u>  |
| <b>CASH FLOWS FROM FINANCING ACTIVITIES</b>                                    |                                 |                     |
| Proceeds from debt                                                             | 261,173                         | 260,318             |
| Repayments of debt                                                             | <u>(4,947,242)</u>              | <u>(3,361,734)</u>  |
| Net cash used in financing activities                                          | <u>(4,686,069)</u>              | <u>(3,101,416)</u>  |
| Increase (decrease) in cash and cash equivalents                               | (1,083,677)                     | 1,122,152           |
| Cash and cash equivalents at beginning of year                                 | <u>1,249,762</u>                | <u>127,610</u>      |
| Cash and cash equivalents at end of year                                       | <u>\$ 166,085</u>               | <u>\$ 1,249,762</u> |
| Cash paid during the year for interest                                         | <u>\$ 571,327</u>               | <u>\$ 575,530</u>   |
| <b>Non-cash investing activities</b>                                           |                                 |                     |
| Assets acquired under capital leases                                           | \$ 1,039,534                    | \$ 1,671,283        |
| Non-cash amount related to capitalized internally developed software           | <u>259,930</u>                  | <u>430,222</u>      |
| Total non-cash investing activities                                            | <u>\$ 1,299,464</u>             | <u>\$ 2,101,505</u> |

*The accompanying notes are an integral part of these financial statements.*

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

## Notes to Financial Statements

December 31, 2016 and 2015

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### 1. ORGANIZATION AND OPERATIONS

Miami International Securities Exchange, LLC (“MIAX” or the “Company”) was formed in the State of Delaware on September 10, 2007 and is a wholly-owned subsidiary of Miami International Holdings, Inc. (the “Parent” or “MIH”), and an affiliate of Miami International Technologies, LLC (“MIAX Technologies”) and Miami International Futures Exchange, LLC (“MIAX Futures”) and MIAX Global, LLC, which was formed on June 30, 2015. The Company commenced its operations on February 27, 2008. The name of the Company was changed from Miami International Stock Exchange, LLC to Miami International Securities Exchange, LLC on April 21, 2010. MIAX PEARL, LLC (“MIAX PEARL”), a second equity options exchange and subsidiary of MIH was launched on February 6, 2017.

In November 2012, the Company completed the development of its trading systems in anticipation of an early December launch. On December 3, 2012, MIAX received an Approval Order from The United States Securities and Exchange Commission (“SEC”) of its application for registration as a National Securities Exchange and began trading equity options on December 7, 2012.

In December 2011, the Board of Directors approved the amendment by the Parent of its Restated Certificate of Incorporation to place certain ownership and voting limitations on the holders of capital stock of the Parent as required by the SEC in connection with the approval of MIAX as a registered national securities exchange pursuant to Section 6(a) of the Securities and Exchange Act of 1934 (the “Exchange Act”) (the limitations collectively referred to herein as the “Share Restrictions”), which Share Restrictions apply commencing on December 3, 2012 (the “Registration Date”) that MIAX is registered as a national securities exchange pursuant to Section 6(a) of the Exchange Act (the “Amendment”). The Amendment became effective upon approval of the same by the shareholders of the Parent on August 31, 2012.

In December 2011, the Parent’s Board of Directors also approved the Amended and Restated Bylaws of the Parent containing provisions required in connection with the registration of MIAX as a national securities exchange, which Amended and Restated Bylaws became effective on the August 31, 2012.

There are risks related to the development and launch of new exchanges, including but not limited to, additional costs to bring each platform operational, obtaining the approvals to operate from the SEC and CFTC, and market acceptance, as well as the ability to adapt to the ongoing changes within the securities industry and regulatory environment. The Company’s Parent continues to raise capital as needed to meet short-term liquidity requirements. As revenues increase over time, management anticipates that the capital raising efforts will no longer be required. The Company has incurred a cumulative loss of \$247,992,811 from February 27, 2008 (inception) to December 31, 2016.

These conditions raise substantial doubt about the Company’s ability to continue as a going concern. These financial statements do not include any adjustments that may be necessary should the Company be unable to continue as a going concern. The Company’s continuation as a going concern is dependent on its Parent’s ability to obtain additional financing as may be required and its Parent’s decision to fund the Company’s operations and ultimately on its ability to attain profitability.

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Notes to Financial Statements**  
**December 31, 2016 and 2015**

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**2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**Basis of Presentation**

The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States ("US GAAP").

**Use of Estimates**

The preparation of financial statements in conformity with US GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements, and the reported amounts of expenses during the reporting period. Actual results could differ from those estimates.

**Cash and Cash Equivalents**

All highly liquid investments purchased with an original maturity of three months or less are considered cash equivalents.

The Company periodically maintains cash balances at financial institutions in excess of the \$250,000 Federal Deposit Insurance Corporation insurance limit. As of December 31, 2016 and 2015, cash and cash equivalents were held at major financial institutions. Cash and cash equivalents approximate fair value. It is the Company's policy to monitor the credit standing of the financial institutions with which it conducts business.

**Prepaid Expenses**

Prepaid expenses primarily consist of prepaid software maintenance fees.

**Accounts Receivable**

Accounts Receivable consists primarily of transaction, access and regulatory fees and the Company's share of distributable revenue receivable from the Options Price Reporting Authority ("OPRA"). Accounts receivable are primarily collected through the Options Clearing Corporation ("OCC") and are with large, highly-rated clearing firms; therefore concentrations of credit risk are limited. The Company has no financing related receivables.

**Fixed Assets**

Fixed assets are recorded at cost. Depreciation is computed on a straight-line basis over the estimated useful lives of the related assets ranging from three to five years. Fixed assets acquired under capital leases are depreciated over the life of the lease. Leasehold improvements are amortized over the estimated useful lives of the improvements or the remaining terms of the leases, whichever is less. Any gain or loss on the retirement of assets is recognized currently.

Depreciable assets are only evaluated for impairment upon a significant change in the operating or macroeconomic environment. In these circumstances, if an evaluation of the undiscounted cash flows indicates impairment, the asset is written down to its estimated fair value, which is based on discounted

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Notes to Financial Statements**  
**December 31, 2016 and 2015**

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future cash flows. Useful lives are periodically evaluated to determine whether events or circumstances have occurred that indicate the need for revision.

**Computer Software Developed or Obtained for Internal Use**

The Company follows the provisions of ASC 350, Intangibles - Goodwill and Other ("ASC 350"). The Company capitalizes costs of internally developed software incurred during the application development stage, which includes design, coding, installation and testing activities. The Company amortizes these costs over the period to which benefit is provided.

**Other Assets**

Other assets primarily consist of long-term membership and participation fees paid to industry associations.

**Due to MIH**

The majority of all Company expenditures to date have been funded by the Parent. The Due to MIH balance represents the combination of allocated costs from current and prior years as well as the liability for allocated net assets.

Management has determined that substantially all costs, other than direct financing and other financing related costs, for the build out of a marketplace and facility for the trading of equity options, are primarily attributable to the Company and MIAX PEARL. The Company's allocated portion of costs is included in the accompanying statements of operations and member's deficits. While equipment leasing costs are allocated to MIAX and MIAX PEARL all other financing and capital raising costs are not allocated to the subsidiaries and are reflected solely in the Parent company financial statements. The Company considers changes in the amount Due to MIH to be operating activity for purposes of the Statements of Cash Flows.

**Marketing Fees**

The Company facilitates the collection of marketing fees charged to market makers on certain customer trades executed at MIAX. These funds are accumulated in pools that are disbursed by the Company to order flow providers in accordance with instructions received from the market makers who are responsible for the pools. Pursuant to ASC 605-45, Revenue Recognition - Principal Agent Considerations, the Company reflects the assessments and payments on a net basis, with no impact on revenues or expenses. As of December 31, 2016 and 2015, amounts assessed by the Company on behalf of others are included in current assets and payments due to others included in current liabilities.

**Revenue Recognition**

The Company's revenue recognition policies comply with ASC 605, Revenue Recognition ("ASC 605"). Revenue will be recognized when all of the following criteria are met: (1) persuasive evidence that an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the seller's price to the buyer is fixed and determinable; and (4) collectability is reasonably assured. Revenue recognition policies for specific sources of revenue are discussed below:

*Transaction Fees:* Transaction fees are a function of three variables: (1) exchange fee rates; (2) overall industry trading volume; and (3) market share achieved by MIAX. Transaction fees are assessed on a per

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

## Notes to Financial Statements

December 31, 2016 and 2015

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contract basis and are considered earned upon the execution of a trade and are recognized on a trade date basis. Transaction fees are recorded net of applicable volume discounts. Rebates paid for certain customer transactions are recorded separately as a cost of revenue. In the event that member firms prepay for transaction fees, revenue is recognized as transaction fees are incurred.

*Access Fees:* Access fees represent fees assessed to MIAX members for the opportunity to trade and use other related functions of MIAX, including trading permits and connectivity. Access fees are recognized during the period the service is provided.

*Market Data Fees:* Market data revenue includes distributions from MIAX's participation in OPRA and is distributed based upon each individual exchange's market share of total options contracts cleared by the OCC. Market data revenue also includes MIAX's market data revenue earned from the sale of MIAX's Top of the Market ("TOM") data. Market data revenue is recognized in the period the data is provided.

*Regulatory Fees:* Regulatory fees include the Options Regulatory Fee ("ORF") and Section 31 fees. ORF is based on the number of customer contracts, as reported by OCC, executed or cleared by MIAX members on all US options exchanges and is recognized on a trade date basis. Section 31 fees of \$3,665,654 are also included in regulatory fees and are charged to MIAX members. Section 31 fees are used to offset similar fees charged to MIAX by the SEC which are included in trading operations costs.

*Deferred Revenue:* The Company has classified amounts totaling \$250,000 representing prepaid MIAX fees (see Note 7 – Equity Rights Offering) as deferred revenue at December 31, 2015. Deferred revenue is amortized to income over the applicable future periods as transaction fees are earned.

### **Income Taxes**

MIAX is a single member limited liability company and was structured as a disregarded entity for U.S. federal, state and local income tax purposes. Accordingly, no provision for income taxes is made in MIAX's financial statements.

### **Recent Accounting Pronouncements**

In May 2014, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2014-09, Revenue for Contracts with Customers (Topic 606). Upon the effective date, the ASU replaces almost all existing revenue recognition guidance, including industry specific guidance, in US GAAP. The standard provides a five-step analysis of transactions to determine when and how revenue is recognized, based upon the core principle that revenue is recognized to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In addition, the standard requires additional disclosures regarding the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. In August 2015, the FASB subsequently issued ASU 2015-14, Revenue from Contracts with Customers - Deferral of the Effective Date that resulted in a one year deferral of ASU 2014-09 for fiscal years beginning after December 15, 2018. Early adoption is permitted for fiscal years beginning after December 15, 2016. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements but does not expect it to have a material impact, if any.

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Notes to Financial Statements**  
**December 31, 2016 and 2015**

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**3. FIXED ASSETS**

The Company's allocation of fixed assets is comprised of the following:

|                                                       | <u>2016</u>         | <u>2015</u>         |
|-------------------------------------------------------|---------------------|---------------------|
| Furniture and equipment                               | \$ 28,152,112       | \$ 24,835,985       |
| Purchased software                                    | <u>1,285,293</u>    | <u>1,219,363</u>    |
|                                                       | 29,437,405          | 26,055,348          |
| Less - accumulated depreciation and amortization      | 24,762,342          | 21,866,139          |
| Capitalized internally developed software in-progress | <u>675,417</u>      | <u>4,284,027</u>    |
|                                                       | <u>\$ 5,350,480</u> | <u>\$ 8,473,236</u> |

**4. INTERNALLY DEVELOPED SOFTWARE**

The Company capitalized \$12,166,245 and \$10,140,133 of development costs, net of amortization as of December 31, 2016 and 2015, respectively. Amortization expense of \$4,104,137 and \$3,455,813 was recorded in 2016 and 2015, respectively. Accumulated amortization as of December 31, 2016 and 2015, respectively was \$12,166,245 and \$8,573,383.

Future amortization of internally developed software is as follows:

**Years Ending December 31,**

|      |                      |
|------|----------------------|
| 2017 | \$ 4,733,684         |
| 2018 | 2,816,917            |
| 2019 | 2,236,285            |
| 2020 | 1,512,341            |
| 2021 | <u>867,018</u>       |
|      | <u>\$ 12,166,245</u> |

**5. COMMITMENTS AND CONTINGENCIES**

**Operating Leases**

The Parent leases space for its Princeton, New Jersey office under various operating lease agreements. The leases are for approximately 26,700 square feet (the "Princeton Premises") and continue through May 31, 2020.

## **MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**

### **Notes to Financial Statements**

**December 31, 2016 and 2015**

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Relative to the Princeton Premises, the Parent became party to a \$238,219 Irrevocable Standby Letter of Credit (“ISLOC”) issued by the Parent’s bank for the benefit of the landlord of the Company’s Princeton Premises. The ISLOC expires on the one year anniversary of the date of issuance and automatically renews for one year terms through 2015. The ISLOC expired in February 2015 and the funds were returned to the Parent by the landlord. While the Parent was required by its landlords in Princeton and Miami to maintain deposits totaling \$305,608 at December 31, 2016, neither deposit was required to be collateralized by a letter of credit.

#### **Claims and Litigation**

On May 30, 2014, plaintiff Harold R. Lanier filed a federal Class Action Complaint in the Southern District of New York naming all twelve options exchanges, including MIAX as defendants. Plaintiff alleged that the Exchange Defendants violated provisions of the plan to disseminate market data to the Options Price Reporting Authority (“OPRA”), thus breaching the contracts with Subscribers, through their distribution of proprietary market data that rendered the data provided by the OPRA feed stale and invalid. The exchange defendants moved to dismiss the action in September 2014 and the matter was dismissed with prejudice in April 2015. Plaintiff has filed an appeal of such dismissal. Oral argument on the appeal was heard in February 2016 and the appeal was denied. Plaintiff sought rehearing or rehearing en banc, but there is no opinion to date on such request.

In the normal course of its business, the Company is exposed to asserted and unasserted claims. In the opinion of management, these matters will not have a material adverse effect on the Company’s financial position, results of operations or cash flows.

#### **Employees and Directors**

The Parent has entered into employment agreements with certain employees. In addition to base salaries, the agreements provide for issuance of stock options, retention and, in part, incentive bonuses based on criteria established by the Board of Directors.

## **6. DEBT AND CAPITAL LEASE OBLIGATIONS**

The allocated debt obligations of the Company at December 31, 2016 and 2015 were \$261,173 and \$260,318, respectively which represented the remaining balance of a financing arrangement for annual insurance premiums.

During 2011, MIAX entered into a Master Lease Agreement (the “Lease Agreement”) with a vendor. Pursuant to the Lease Agreement, the vendor provided MIAX with an aggregate amount of \$19,328,892 in equipment financing. The interest rate under the Lease Agreement was 6.67% for a term of 48 months. In September, 2014 the Lease Agreement was amended to extend the maturity of the lease for an additional 18 months, maturing in August, 2017. The Amendment included an increase in the interest rate to 8.00% and provided the Lessor with a security interest by pledging the other assets of the Company. The Company considered the accounting guidance provided in ASC 840-30-35-19 regarding subsequent measurement of the changes in the provisions of a capital lease and determined that no adjustment was required in the financial statements.

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

## Notes to Financial Statements

December 31, 2016 and 2015

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In November 2015, the Company entered into two additional subleases under the amended Master Lease agreement with the vendor and leased equipment valued at \$1,464,567 for a 23-month term and at \$206,716 for a 22-month term. Both subleases carry an interest rate of 15% and were accounted for as capital leases. In January 2016 the Parent entered into additional subleases with the same vendor for \$1.5 million of equipment at similar terms to provide two subleases.

In April 2016, the Parent entered into an equipment lease with one of its vendors for equipment valued at \$2,356,524 for a 24-month term. The lease carries an interest rate of 12%. The Company was allocated \$682,261 of this equipment lease. That same month the Company entered into another equipment lease with a leasing company for equipment valued at \$1,160,191 for a 48-month term at an interest rate of 14.74%. The Company was allocated \$282,748 of this equipment lease. Both leases were accounted for as capital leases.

Obligations under all capital leases at December 31, 2016 and 2015 were \$3,462,309 and \$7,109,698, respectively. The accumulated amortization for all capital leases at December 31, 2016 and 2015 were \$20,443,989 and \$18,965,835, respectively.

Future minimum lease payments under these obligations at December 31, 2016 are:

### Years Ending December 31,

|                             |                     |
|-----------------------------|---------------------|
| 2017                        | \$ 3,309,420        |
| 2018                        | 217,099             |
| 2019                        | 92,752              |
| 2020                        | <u>33,771</u>       |
| Total future payments       | 3,653,042           |
| Less interest               | <u>190,733</u>      |
| Net capital lease liability | <u>\$ 3,462,309</u> |

## 7. EQUITY

MIAX is a single member limited liability company and has issued 100 membership units constituting 100% membership interest in the Company to MIH who is the Company's sole member. MIAX has not made any distributions for the period from February 27, 2008 (inception) through December 31, 2016.

### Equity Rights Offering I

As approved by the Board of Directors on September 27, 2013, the Parent authorized the issuance and sale of up to ten A-Units and up to ten B-Units to the members of the MIAX Options Exchange, with such Units having the terms set forth below ("Offering").

# MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC

## Notes to Financial Statements

December 31, 2016 and 2015

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Each A-Unit consists of (i) 101,695 shares (the “Shares”) of common stock of the Parent, par value \$0.001 per share and a purchase price of \$5.00 per Share (“Common Stock”) and (ii) common stock purchase warrants (the “A-Warrants”) to purchase up to 2,182,639 shares of Common Stock.

Ten percent or 218,264 A-Warrants vest upon closing of the transaction and the remaining 1,964,375 A-Warrants vest over a 22.5 month period provided that the A-Unit Investor meets the specific performance criteria set forth in the A-Warrant agreement, which requires that the A-Unit Investor trade an agreed-upon number of options contracts, subject to certain exceptions, on MIAX on a daily basis over a specified number of months.

Each B-Unit consists of common stock purchase warrants (the “B-Warrants”) to purchase 1,713,251 shares of Common Stock. In order to receive B-Warrants, an Investor participating in the B-Unit Offering must prepay certain MIAX Exchange Fees in the amount of \$500,000 per B-Unit as set forth on the MIAX Options Exchange Fee Schedule (“MIAX Fees”) for the 22-month period commencing October 1, 2013 and ending July 31, 2015 (the “Prepaid Fee Period”).

The 1,713,521 B-Warrants vest commencing upon closing of the transaction up to a 22.5 month period provided that the B-Unit Investor meets the specific performance criteria set forth in the B-Warrant agreement, which requires that the B-Unit Investor trade an agreed-upon number of options contracts, subject to certain exceptions, on MIAX on a daily basis over a specified number of months.

The A-Warrants and B-Warrants (together, the “Warrants”) will have an exercise period commencing upon vesting and expiring on the earlier of (i) August 31, 2020, or (ii) the two-year anniversary of a Qualified Public Offering (an initial public offering of Common Stock under the Securities Act, where the offering price, net of underwriting discounts and commissions, exceeds \$250,000,000), or a merger of the Parent with and into an unaffiliated entity or corporation. In the event of a Qualified Public Offering, merger or other liquidating event, it will result in the immediate vesting of all unvested Warrants that remain eligible to vest with the A-Unit Investor and B-Unit Investor (“Investor(s)” or “Offering Participant(s)”).

On September 30, 2013, the Parent entered into strategic alliances with an Investor to acquire one A-Unit and five Investors to acquire eight B-Units. As a result of the two transactions, the Parent issued 101,695 shares of Common Stock to the A-Unit Investor described above for \$508,475 and received \$4,000,000 for prepaid MIAX fees from the B-Unit Investors described above. The Parent recognized warrant expense of \$16,344,940 for the year ended December 31, 2015 related to the fair market value associated with vested warrants due to the Investors meeting their performance criteria. This expense was allocated in its entirety to the Company and is included in financing related costs in the statement of operations. Additionally, the Company amortized \$213,980 of the prepaid MIAX fees to income in 2015.

### Equity Rights Offering II

On January 30, 2015 the Parent entered into a second Equity Rights offering with 7 strategic investors to acquire 18 D-Units for a total prepaid fee of \$4,500,000. These D-Units are similar in structure to the B-Units described above with a few notable exceptions. Each D-unit consists of common stock purchase warrants to purchase 1,353,518 shares of common stock of the Company and requires a prepaid fee of \$250,000 instead of the \$500,000 that was stipulated in the B-Unit deal. The term of the transaction is for the 29-month period commencing February 1, 2015 and ending June 30, 2017. The basic terms of the

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Notes to Financial Statements**  
**December 31, 2016 and 2015**

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second offering are similar to those of the first offering, including the warrant vesting features and the exercise periods.

For the years ended December 31, 2016 and 2015, the Company recognized warrant expenses of \$44,178,911 and \$26,098,212, respectively, representing the fair market value associated with vested warrants due to the Offering Participants meeting their performance criteria in the second Equity Rights offering. These expenses were allocated in their entirety to the Company and is included in financing related costs in the statement of operations. Additionally, the Company amortized \$250,000 and \$4,250,000 of the prepaid MIAX transaction fees to income during the years ended December 31, 2016 and 2015, respectively.

**8. EMPLOYEE BENEFIT PLAN**

The Parent sponsors a voluntary defined contribution 401(k) plan, which covers substantially all of the Company's employees. Neither the Parent nor the Company contribute to the 401(k) plan.

**9. DIRECTORS FEES**

**Directors Fees**

In April 2013, the Board of Directors of the Company approved the compensation amounts to be paid to Independent Directors and Committee Members of the Company for the period beginning January 1, 2013 until such time as the Board determines it is in the best interests of the Company to adopt new compensation terms (the "Director & Committee Fee Compensation"). Independent Directors and Committee Members of the Company are compensated as follows:

Independent Directors each receive \$50,000 for the year, pro rata. Committee Members each receive varying amounts, pro rata, depending on which committee(s) such Committee Member is appointed. The Director & Committee Fee Compensation is payable pursuant to the following two options: (i) a maximum of 50% cash payable quarterly and the balance in stock options to purchase Nonvoting Common Stock of the Company under the 2013 Stock Option and Incentive Plan for Non-Employee Directors, Committee Members and Members of the Board of Advisors (the "2013 Stock Option and Incentive Plan"), valued at the grant date, vesting quarterly and having a term of 10 years; or (ii) taking 100% of the Director & Committee Fee Compensation in Nonvoting Common Stock options under the 2013 Stock Option and Incentive Plan, valued at the grant date and vesting quarterly.

The number of options to be granted to Independent Directors is based the Director & Committee Fee Compensation divided by the value of each option under a theoretical valuation, and the exercise price applicable to each option is the fair market value ("FMV") at the time of the grant.

Additionally, an Independent Director (not a Committee Member) receives \$20,000 in value of Nonvoting Common Stock options under the 2013 Stock Option and Incentive Plan annually, commencing in the calendar year following his/her first year of board service, vesting quarterly and having a term of 10 years. The same theoretical valuation discussed above would be used to determine how many options would be granted to the Independent Director annually.

**MIAMI INTERNATIONAL SECURITIES EXCHANGE, LLC**  
**Notes to Financial Statements**  
**December 31, 2016 and 2015**

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Additionally, a new Independent Director only (not a Committee Member), upon first appointment to the Board of Directors or the board of a subsidiary of the Company, will receive a grant of 50,000 Nonvoting Common Stock options under 2013 Stock Option and Incentive Plan that will fully vest after 9 months of service as a director to the Company with the exercise price being FMV on the grant date and having a term of 10 years.

**10. SUBSEQUENT EVENTS**

The Company has evaluated the possibility of subsequent events existing in the Company's financial statements through May 4, 2017, the date the financial statements were available to be issued. The Company has determined that there are no material events that would require disclosure in the Company's financial statements other than those listed below and elsewhere in these financial statement footnotes.

**Equity Issuances**

Since January 1, 2017, the Parent has raised \$1,279,888 through the exercise of 319,772 previously issued warrants to purchase Common Stock. In addition, the Parent raised \$1,800,000 through the direct sale of its Common Stock to one investor. In connection with the direct sale of Common Stock, the Parent issued to the same investor warrants to purchase 30,000 shares of Common Stock. In addition, the Parent issued 77,590 shares of Common Stock in satisfaction of payment for accrued interest under a promissory note.

**Options**

Since January 1, 2017, the Parent has issued options to purchase 110,000 shares of Series B Preferred Stock to one employee and two Directors.

**Warrants**

The Parent extended the termination dates of warrants to purchase an aggregate total of 7,863,438 shares of Common Stock for a period of two years from their then-current termination dates in consideration of the payment of fees totaling \$2,518,290. On February 1, 2017, 17,791,150 warrants that were outstanding as of December 31, 2016 expired.

**MIAMI INTERNATIONAL TECHNOLOGIES, LLC**

**Financial Statements  
December 31, 2016 and 2015**

**(Unaudited)**

**MIAMI INTERNATIONAL TECHNOLOGIES, LLC**  
**BALANCE SHEET**  
**(UNAUDITED)**

|                                                    | <b>2016</b> | <b>2015</b> |
|----------------------------------------------------|-------------|-------------|
| <b>ASSETS</b>                                      |             |             |
| <b>CURRENT ASSETS</b>                              |             |             |
| Cash and cash equivalents                          | \$ 62,749   | \$ 9,628    |
| Accounts receivable                                | 5,000       | -           |
| Prepaid and other current assets                   | 7,108       | 85,883      |
| Total current assets                               | 74,857      | 95,511      |
| Fixed assets, net of depreciation and amortization | -           | -           |
| Other assets                                       | 13,234      | 4,387       |
| Total assets                                       | \$ 88,091   | \$ 99,898   |
| <b>LIABILITIES AND MEMBER'S EQUITY</b>             |             |             |
| <b>CURRENT LIABILITIES</b>                         |             |             |
| Accounts payable and other liabilities             | \$ 63,536   | \$ 41,299   |
| Accrued compensation payable                       | 269,462     | 353,021     |
| Due to MIH                                         | 5,949,014   | 1,825,572   |
| Total current liabilities                          | 6,282,012   | 2,219,892   |
| Long term debt                                     | -           | -           |
| Total liabilities                                  | 6,282,012   | 2,219,892   |
| <b>DEFICIT IN MEMBER'S EQUITY</b>                  |             |             |
| Accumulated losses                                 | (6,193,921) | (2,119,994) |
| Total member's deficit                             | (6,193,921) | (2,119,994) |
| Total liabilities and deficit in member's equity   | \$ 88,091   | \$ 99,898   |

**MIAMI INTERNATIONAL TECHNOLOGIES, LLC**  
**STATEMENT OF OPERATIONS**  
**(UNAUDITED)**

|                                                | <u>Years Ended December 31,</u> |                       |
|------------------------------------------------|---------------------------------|-----------------------|
|                                                | <u>2016</u>                     | <u>2015</u>           |
| <b>REVENUES</b>                                |                                 |                       |
| Other revenue                                  | \$ 135,000                      | \$ 65,000             |
| Total revenues                                 | <u>135,000</u>                  | <u>65,000</u>         |
| <b>OPERATING EXPENSES</b>                      |                                 |                       |
| Employee compensation and benefits             | 2,993,656                       | 1,930,443             |
| Information technology and communication costs | 6,612                           | 2,596                 |
| Depreciation and amortization                  | -                               | -                     |
| Occupancy costs                                | 61,126                          | 20,414                |
| Professional services                          | 17,808                          | 7,932                 |
| Financial and banking consulting services      | 113,675                         | 76,015                |
| Share based compensation to third parties      | 2,370                           | -                     |
| Other                                          | <u>131,007</u>                  | <u>54,423</u>         |
| Total operating expenses                       | <u>3,326,254</u>                | <u>2,091,823</u>      |
| <b>OPERATING LOSS</b>                          | <u>(3,191,254)</u>              | <u>(2,026,823)</u>    |
| Interest expense                               | -                               | -                     |
| Financing related costs                        | <u>(882,673)</u>                | <u>(93,171)</u>       |
| <b>LOSS BEFORE INCOME TAX AND NET LOSS</b>     | <u>\$ (4,073,927)</u>           | <u>\$ (2,119,994)</u> |
| Member's deficit at beginning of year          | <u>(2,119,994)</u>              | <u>-</u>              |
| Member's deficit at end of year                | <u>\$ (6,193,921)</u>           | <u>\$ (2,119,994)</u> |

**MIAMI INTERNATIONAL TECHNOLOGIES, LLC**  
**STATEMENT OF CASH FLOWS**  
**(UNAUDITED)**

|                                                                                | <b>Years Ended December 31,</b> |                |
|--------------------------------------------------------------------------------|---------------------------------|----------------|
|                                                                                | <b>2016</b>                     | <b>2015</b>    |
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                    |                                 |                |
| Net loss                                                                       | \$ (4,073,927)                  | \$ (2,119,994) |
| Depreciation and amortization                                                  | -                               | -              |
| Adjustments to reconcile net loss to net cash provided by operating activities |                                 |                |
| Changes in operating assets and liabilities                                    |                                 |                |
| Accounts receivable                                                            | (5,000)                         | -              |
| Prepaid and other current assets                                               | 78,775                          | (85,883)       |
| Other assets                                                                   | (8,847)                         | (4,387)        |
| Accounts payable and other liabilities                                         | 22,237                          | 41,299         |
| Accrued compensation payable                                                   | (83,559)                        | 353,021        |
| Due to MIH                                                                     | 4,123,442                       | 1,825,572      |
| Net cash provided by operating activities                                      | 53,121                          | 9,628          |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                    |                                 |                |
| Capital expenditures                                                           | -                               | -              |
| Net cash used in investing activities                                          | -                               | -              |
| <b>CASH FLOWS FROM FINANCING ACTIVITIES</b>                                    |                                 |                |
| Proceeds from debt                                                             | -                               | -              |
| Repayments of term debt                                                        | -                               | -              |
| Net cash used in financing activities                                          | -                               | -              |
| Increase in cash and cash equivalents                                          | 53,121                          | 9,628          |
| Cash and cash equivalents at beginning of year                                 | 9,628                           | -              |
| Cash and cash equivalents at end of year                                       | \$ 62,749                       | \$ 9,628       |

## **EXHIBIT I**

### **Exhibit Request:**

**For the latest fiscal year of the applicant, audited financial statements which are prepared in accordance with, or in the case of a foreign applicant, reconciled with, United States generally accepted accounting principles, and are covered by a report prepared by an independent public accountant. If an applicant has no consolidated subsidiaries, it shall file audited financial statements under Exhibit I alone and need not file a separate unaudited financial statement for the applicant under Exhibit D.**

### **Response:**

Audited unconsolidated financial statements for MIAX PEARL, LLC as of December 31, 2016 are attached. MIAX PEARL, LLC has no consolidated subsidiaries.

Financial Statements and Report of  
Independent Certified Public Accountants

**MIAX PEARL, LLC**

December 31, 2016

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## REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Board of Directors

**MIAX PEARL, LLC**

We have audited the accompanying financial statements of MIAX PEARL, LLC (the "Company"), which comprise the balance sheet as of December 31, 2016, and the related statements of operations and member's deficit, and cash flows for the period from February 11, 2016 (inception) to December 31, 2016, and the related notes to the financial statements.

### Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of MIAX PEARL, LLC as of December 31, 2016 and the results of its operations and its cash flows for the period from February 11, 2016 (inception) to December 31, 2016 in accordance with accounting principles generally accepted in the United States of America.

Emphasis of matter

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 1 to the financial statements, the Company has incurred a substantial cumulative loss since the date of inception and they are not yet cash flow positive. These factors, among others, raise substantial doubt about the Company's ability to continue as a going concern. Management's plans in regard to these matters are also described in Note 1. The financial statements do not include any adjustments that might result from the outcome of this uncertainty. Our opinion is not modified with respect to this matter.

*Grant Thornton LLP*

Iselin, New Jersey  
May 4, 2017

**MIAX PEARL, LLC**  
**Balance Sheet**  
**December 31, 2016**

---

**ASSETS**

**CURRENT ASSETS**

|                                  |                |
|----------------------------------|----------------|
| Cash and cash equivalents        | \$ 5,000,000   |
| Prepaid and other current assets | <u>996,695</u> |

Total current assets 5,996,695

|                                                    |                |
|----------------------------------------------------|----------------|
| Fixed assets, net of depreciation and amortization | 10,448,677     |
| Internally developed software, net of amortization | 144,598        |
| Other assets                                       | <u>344,070</u> |

Total assets \$ 16,934,040

**LIABILITIES AND MEMBER'S EQUITY**

**CURRENT LIABILITIES**

|                                        |                   |
|----------------------------------------|-------------------|
| Accounts payable and other liabilities | \$ 1,118,464      |
| Accrued compensation payable           | 955,931           |
| Current debt                           | 1,919,190         |
| Due to MIH                             | <u>29,117,798</u> |

Total current liabilities 33,111,383

Long term debt 941,797

Total liabilities 34,053,180

**DEFICIT IN MEMBER'S EQUITY**

Accumulated losses (17,119,140)

Total member's deficit (17,119,140)

Total liabilities and deficit in member's equity \$ 16,934,040

*The accompanying notes are an integral part of these financial statements.*

**MIAX PEARL, LLC**  
**Statement of Operations and Member's Deficit**  
**February 11, 2016 (inception) to December 31, 2016**

---

|                                                                  |                        |
|------------------------------------------------------------------|------------------------|
| REVENUES                                                         |                        |
| Other revenue                                                    | \$ <u>          -</u>  |
| Total revenues                                                   | -                      |
| OPERATING EXPENSES INCURRED DIRECTLY OR<br>ALLOCATED FROM PARENT |                        |
| Employee compensation and benefits                               | 8,131,859              |
| Information technology and communication costs                   | 4,427,436              |
| Depreciation and amortization                                    | 2,076,301              |
| Occupancy costs                                                  | 445,151                |
| Professional services                                            | 46,907                 |
| Financial and banking consulting services                        | 26,414                 |
| Trading operations costs                                         | 3,758                  |
| Share based compensation to third parties                        | 6,134                  |
| Directors' fees                                                  | 55,717                 |
| Other                                                            | <u>676,572</u>         |
| Total operating expenses                                         | <u>15,896,249</u>      |
| OPERATING LOSS                                                   | <u>(15,896,249)</u>    |
| Interest expense                                                 | (340,218)              |
| Financing related costs                                          | <u>(882,673)</u>       |
| NET LOSS                                                         | <u>(17,119,140)</u>    |
| Member's deficit at beginning of year                            | <u>          -</u>     |
| Member's deficit at end of year                                  | <u>\$ (17,119,140)</u> |

*The accompanying notes are an integral part of these financial statements.*

**MIAX PEARL, LLC**  
**Statement of Cash Flows**  
February 11, 2016 (inception) to December 31, 2016

---

|                                                                                |                     |
|--------------------------------------------------------------------------------|---------------------|
| CASH FLOWS FROM OPERATING ACTIVITIES                                           |                     |
| Net loss                                                                       | \$ (17,119,140)     |
| Depreciation and amortization                                                  | 2,076,301           |
| Adjustments to reconcile net loss to net cash provided by operating activities |                     |
| Changes in operating assets and liabilities                                    |                     |
| Prepaid and other current assets                                               | (996,695)           |
| Other assets                                                                   | (344,070)           |
| Accounts payable and other liabilities                                         | 1,118,464           |
| Accrued compensation payable                                                   | 955,931             |
| Net cash used in operating activities                                          | <u>(14,309,209)</u> |
| CASH FLOWS FROM INVESTING ACTIVITIES                                           |                     |
| Capital expenditures                                                           | <u>(8,515,244)</u>  |
| Net cash used in investing activities                                          | <u>(8,515,244)</u>  |
| CASH FLOWS FROM FINANCING ACTIVITIES                                           |                     |
| Proceeds from debt                                                             | 28,042              |
| Due to MIH                                                                     | 29,117,798          |
| Repayments of term debt                                                        | <u>(1,321,387)</u>  |
| Net cash provided by financing activities                                      | <u>27,824,453</u>   |
| Increase (decrease) in cash and cash equivalents                               | 5,000,000           |
| Cash and cash equivalents at beginning of year                                 | <u>-</u>            |
| Cash and cash equivalents at end of year                                       | <u>\$ 5,000,000</u> |
| Cash paid during the year for interest                                         | <u>\$ 340,218</u>   |
| Non-cash investing activities                                                  |                     |
| Assets acquired under capital leases                                           | \$ 4,154,332        |
| Non-cash amount related to capitalized internally developed software           | <u>412,915</u>      |
| Total non-cash investing activities                                            | <u>\$ 4,567,247</u> |

*The accompanying notes are an integral part of these financial statements.*

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

---

**1. ORGANIZATION AND OPERATIONS**

MIAX PEARL, LLC (“MIAX PEARL” or the “Company”) was formed in the State of Delaware on February 11, 2016 and is a wholly-owned subsidiary of Miami International Holdings, Inc. (the “Parent” or “MIH”), and an affiliate of Miami International Securities, LLC (“MIAX”), Miami International Technologies, LLC (“MIAX Technologies”) and Miami International Futures Exchange, LLC (“MIAX Futures”) and MIAX Global, LLC, which was formed on June 30, 2015.

The Company’s operations are not yet producing revenues. The development of the Company’s trading system is in-process and the trading systems are not currently operational. There are risks related to the development and launch of new exchanges, including but not limited to, additional costs to bring to bring the Company’s platform operational, obtaining the approvals to operate as securities exchange from the SEC, and market acceptance, as well as the ability to adapt to the ongoing changes within the securities industry and regulatory environment. The Company’s Parent continues to raise capital as needed to meet short-term liquidity requirements. The Company has incurred a cumulative loss of \$17,119,140 from February 11, 2016 (inception) to December 31, 2016.

These conditions raise substantial doubt about the Company’s ability to continue as a going concern. These financial statements do not include any adjustments that may be necessary should the Company be unable to continue as a going concern. The Company’s continuation as a going concern is dependent on its Parent’s ability to obtain additional financing as may be required and its Parent’s decision to fund the Company’s operations and ultimately on its ability to attain profitability.

**2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**Basis of Presentation**

The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States (“US GAAP”).

**Use of Estimates**

The preparation of financial statements in conformity with US GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements, and the reported amounts of expenses during the reporting period. Actual results could differ from those estimates.

**Cash and Cash Equivalents**

All highly liquid investments purchased with an original maturity of three months or less are considered cash equivalents.

The Company periodically maintains cash balances at financial institutions in excess of the \$250,000 Federal Deposit Insurance Corporation insurance limit. As of December 31, 2016 cash and cash equivalents were held at major financial institutions. Cash and cash equivalents approximate fair value. It is the Company’s policy to monitor the credit standing of the financial institutions with which it conducts business.

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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**Prepaid Expenses**

Prepaid expenses primarily consist of prepaid software maintenance fees.

**Fixed Assets**

Fixed assets are recorded at cost. Depreciation is computed on a straight-line basis over the estimated useful lives of the related assets ranging from three to five years. Fixed assets acquired under capital leases are depreciated over the life of the lease. Leasehold improvements are amortized over the estimated useful lives of the improvements or the remaining terms of the leases, whichever is less. Any gain or loss on the retirement of assets is recognized currently.

Depreciable assets are only evaluated for impairment upon a significant change in the operating or macroeconomic environment. In these circumstances, if an evaluation of the undiscounted cash flows indicates impairment, the asset is written down to its estimated fair value, which is based on discounted future cash flows. Useful lives are periodically evaluated to determine whether events or circumstances have occurred that indicate the need for revision.

**Computer Software Developed or Obtained for Internal Use**

The Company follows the provisions of ASC 350, Intangibles - Goodwill and Other ("ASC 350"). The Company capitalizes costs of internally developed software incurred during the application development stage, which includes design, coding, installation and testing activities. The Company amortizes these costs over the period to which benefit is provided.

**Other Assets**

Other assets primarily consist of long-term membership and participation fees paid to industry associations.

**Due to MIH**

All of the Company's expenditures to date have been funded by the Parent. The Due to MIH balance represents the combination of allocated costs for the current period as well as the liability for allocated net assets.

Management has determined that substantially all costs, other than direct financing and other financing related costs, for the build out of a marketplace and facility for the trading of equity options, are primarily attributable to the Company and MIAX. The Company's allocated portion of cost are included in the accompanying statement of operations and member's deficits. While equipment leasing costs are allocated to MIAX and MIAX PEARL, all other financing and capital raising costs are not allocated to the subsidiaries and are reflected solely in the Parent company financial statements. The Company considers changes in the amount Due to MIH to be financing activity for purposes of the Statement of Cash Flows.

**Income Taxes**

MIAX PEARL is a single member limited liability company and was structured as a disregarded entity for U.S. federal, state and local income tax purposes. Accordingly, no provision for income taxes is made in MIAX PEARL's financial statements.

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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**Recent Accounting Pronouncements**

In May 2014, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) 2014-09, Revenue for Contracts with Customers (Topic 606). Upon the effective date, the ASU replaces almost all existing revenue recognition guidance, including industry specific guidance, in US GAAP. The standard provides a five-step analysis of transactions to determine when and how revenue is recognized, based upon the core principle that revenue is recognized to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In addition, the standard requires additional disclosures regarding the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. In August 2015, the FASB subsequently issued ASU 2015-14, Revenue from Contracts with Customers - Deferral of the Effective Date that resulted in a one year deferral of ASU 2014-09 for fiscal years beginning after December 15, 2018. Early adoption is permitted for fiscal years beginning after December 15, 2016. The Company is currently evaluating the impact of the adoption of this standard on its financial statements but does not expect it to have a material impact, if any

**3. FIXED ASSETS**

The Company’s allocation of fixed assets is comprised of the following:

|                                                       | <u>2016</u>          |
|-------------------------------------------------------|----------------------|
| Furniture and equipment                               | \$ 8,436,920         |
| Purchased software                                    | <u>123,284</u>       |
|                                                       | 8,560,204            |
| Less - accumulated depreciation and amortization      | 2,065,972            |
| Capitalized internally developed software in-progress | <u>3,954,445</u>     |
|                                                       | <u>\$ 10,448,677</u> |

**4. INTERNALLY DEVELOPED SOFTWARE**

The Company capitalized \$144,598 of development costs, net of amortization as of December 31, 2016. Amortization expense of \$10,328 was recorded in 2016. Accumulated amortization as of December 31, 2016 was \$10,328.

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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Future amortization of internally developed software is as follows:

**Years Ending December 31,**

|      |    |                |
|------|----|----------------|
| 2017 | \$ | 30,986         |
| 2018 |    | 30,985         |
| 2019 |    | 30,985         |
| 2020 |    | 30,985         |
| 2021 |    | <u>20,657</u>  |
|      | \$ | <u>144,598</u> |

**5. COMMITMENTS AND CONTINGENCIES**

**Operating Leases**

The Parent leases space for its Princeton, New Jersey office under various operating lease agreements. The leases are for approximately 26,700 square feet (the "Princeton Premises") and continue through May 31, 2020.

While the Parent was required by its landlords in Princeton and Miami to maintain deposits totaling \$305,608 at December 31, 2016, neither deposit was required to be collateralized by a letter of credit.

**Employees and Directors**

The Parent has entered into employment agreements with certain employees. In addition to base salaries, the agreements provide for issuance of stock options, retention and, in part, incentive bonuses based on criteria established by the Board of Directors.

**6. DEBT AND CAPITAL LEASE OBLIGATIONS**

The allocated debt obligations of the Company at December 31, 2016 was \$28,042 which represented the remaining balance of a financing arrangement for annual insurance premiums.

In January 2016 the Parent entered into two additional leases with an existing vendor and leased equipments valued at \$1.5 million for a 24-month term. Both leases carry an interest rate of 15% and were accounted for as capital leases. Both leases were allocated in their entirety to the Company.

In April 2016, the Parent entered into an equipment lease with one of its vendors for equipment valued at \$2,356,524 for a 24-month term. The lease carries an interest rate of 12%. The Company was allocated \$1,674,263 of this equipment lease. That same month the Parent entered into another equipment lease with a leasing company for equipment valued at \$1,160,191 for a 48-month term at an interest rate of 14.74%. The Company was allocated \$877,443 of this equipment lease. Both leases were accounted for as capital leases.

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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Obligations under all capital leases at December 31, 2016 was \$2,832,946. The accumulated amortization for all capital leases at December 31, 2016 was \$1,043,359.

Future minimum lease payments under these obligations at December 31, 2016 are:

**Years Ending December 31,**

|                             |                     |
|-----------------------------|---------------------|
| 2017                        | \$ 2,159,936        |
| 2018                        | 716,959             |
| 2019                        | 244,880             |
| 2020                        | <u>74,332</u>       |
| Total future payments       | 3,196,107           |
| Less interest               | <u>363,161</u>      |
| Net capital lease liability | <u>\$ 2,832,946</u> |

**7. EQUITY**

MIAX PEARL is a single member limited liability company and has issued 100 membership units constituting 100% membership interest in the Company to MIH who is the Company's sole member. MIAX PEARL has not made any distributions for the period from February 11, 2016 (inception) through December 31, 2016.

**8. EMPLOYEE BENEFIT PLAN**

The Parent sponsors a voluntary defined contribution 401(k) plan, which covers substantially all of the Company's employees. Neither the Parent nor the Company contribute to the 401(k) plan.

**9. DIRECTORS FEES**

**Directors Fees**

In September 2016, the Board of Directors of the Company approved the compensation amounts to be paid to Independent Directors and Committee Members of the Company for the period beginning May 1, 2016 until such time as the Board determines it is in the best interests of the Company to adopt new compensation terms (the "Director & Committee Fee Compensation"). Independent Directors and Committee Members of the Company are compensated as follows:

Independent Directors and Committee Members of MIAX PEARL who also serve in the same capacity for another MIH Self-Regulatory Organization ("SRO") subsidiary each shall receive a rate of one-half of such compensation paid by the Company SRO subsidiary for the year, pro rata. Independent Directors serving in a sole capacity for MIAX PEARL, each receive \$50,000 for the year, pro rata. Committee Members each

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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receive varying amounts, pro rata, depending on which committee(s) such Committee Member is appointed. The Director & Committee Fee Compensation is payable pursuant to the following two options: (i) a maximum of 50% cash payable quarterly and the balance in stock options to purchase Nonvoting Common Stock of the Company under the 2013 Stock Option and Incentive Plan for Non-Employee Directors, Committee Members and Members of the Board of Advisors (the "2013 Stock Option and Incentive Plan"), valued at the grant date, generally vesting quarterly and having a term of 10 years; or (ii) taking 100% of the Director & Committee Fee Compensation in Nonvoting Common Stock options under the 2013 Stock Option and Incentive Plan, valued at the grant date and generally vesting quarterly.

The number of options to be granted to Independent Directors is based the Director & Committee Fee Compensation divided by the value of each option under a theoretical valuation, and the exercise price applicable to each option is the fair market value ("FMV") at the time of the grant.

Additionally, an Independent Director (not a Committee Member) ) serving in a sole capacity for the Company receives \$20,000 in value of Nonvoting Common Stock options and an Independent Director (not a Committee Member) who also serves in the same capacity for another Company SRO subsidiary shall receive \$10,000 in value of Nonvoting Common Stock option paid by the Company SRO subsidiary under the 2013 Stock Option and Incentive Plan annually, commencing in the calendar year following his/her first year of board service, vesting quarterly and having a term of 10 years. The same theoretical valuation discussed above would be used to determine how many options would be granted to the Independent Director annually.

Additionally, a new Independent Director only (not a Committee Member) serving in a sole capacity for the Company, upon first appointment to the Board of Directors or the board of a subsidiary of the Company, will receive a grant of 50,000 Nonvoting Common Stock options under 2013 Stock Option and Incentive Plan that will fully vest after 9 months of service as a director to the Company with the exercise price being FMV on the grant date and having a term of 10 years.

#### **10. SUBSEQUENT EVENTS**

The Company has evaluated the possibility of subsequent events existing in the Company's financial statements through April 30, 2017, the date the financial statements were available to be issued. The Company has determined that there are no material events that would require disclosure in the Company's financial statements other than those listed below and elsewhere in these financial statement footnotes.

##### **Equity Issuances**

Since January 1, 2017, the Parent has raised \$1,279,888 through the exercise of 319,772 previously issued warrants to purchase Common Stock. In addition, the Parent raised \$1,800,000 through the direct sale of its Common Stock to one investor. In connection with the direct sale of Common Stock, the Parent issued to the same investor warrants to purchase 30,000 shares of Common Stock. In addition, the Parent issued 77,590 shares of Common Stock in satisfaction of payment for accrued interest under a promissory note.

**MIAX PEARL, LLC**  
**Notes to Financial Statements**  
**December 31, 2016**

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**Options**

Since January 1, 2017, the Parent has issued options to purchase 110,000 shares of Series B Preferred Stock to one employee and two Directors.

**Warrants**

The Parent extended the termination dates of warrants to purchase an aggregate total of 7,863,438 shares of Common Stock for a period of two years from their then-current termination dates in consideration of the payment of fees totaling \$2,518,290. On February 1, 2017, 17,791,150 warrants that were outstanding as of December 31, 2016 expired.

## **EXHIBIT K**

### **Exhibit Request:**

This Exhibit is applicable only to exchanges that have one or more owners, shareholders, or partners that are not also members of the exchange. If the exchange is a corporation, please provide a list of each shareholder that directly owns 5% or more of a class of a voting security of the applicant. If the exchange is a partnership, please provide a list of all general partners and those limited and special partners that have the right to receive upon dissolution, or have contributed, 5% or more of the partnership's capital. For each of the persons listed in the Exhibit K, please provide the following:

1. Full legal name;
2. Title or Status;
3. Date title or status was acquired;
4. Approximate ownership interest; and
5. Whether the person has control, a term that is defined in the instructions to this Form.

### **Response:**

Miami International Holdings, Inc. owns 100% of MIAX PEARL, LLC. Miami International Holdings, Inc. exercises "control" over the Exchange, as that term is defined in the Form 1 instructions. MIAX PEARL, LLC became a wholly-owned subsidiary of Miami International Holdings, Inc. on March 7, 2016.

## **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 May 19, 2017, including the information set forth in items 1-6 above.

**MEMBER FIRMS**

Total Firms 36

As of May 19, 2017

|                                                                                  |                                                                                      |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>ABN AMRO CLEARING CHICAGO LLC</b>                                             | Approval Date: 2/6/2017                                                              |
| 175 West Jackson Blvd., Ste. 400<br>Chicago IL 60604 Tele #: (312) 604-8000      | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: CLEARANCE            |
| <b>AKUNA SECURITIES LLC</b>                                                      | Approval Date: 4/17/2017                                                             |
| 333 S. Wabash Avenue, Suite 2600<br>Chicago IL 60604 Tele #: (312) 994-4640      | <b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER                          |
| <b>APEX CLEARING CORPORATION</b>                                                 | Approval Date: 2/6/2017                                                              |
| 350 N. St. Paul, Suite 1300<br>Dallas TX 75201 Tele #: (214) 765-1100            | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: CLEARANCE            |
| <b>BARCLAYS CAPITAL INC.</b>                                                     | Approval Date: 2/6/2017                                                              |
| 745 Seventh Avenue<br>New York NY 10019 Tele #: (212) 526-7000                   | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>CITADEL SECURITIES LLC</b>                                                    | Approval Date: 2/6/2017                                                              |
| 131 South Dearborn Street<br>Chicago IL 60603 Tele #: (312) 395-2100             | <b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER/EEM: ORDER FLOW          |
| <b>CITI ORDER ROUTING AND EXECUTION, LLC</b>                                     | Approval Date: 2/6/2017                                                              |
| 11 Ewall Street<br>Mt. Pleasant SC 29464 Tele #: (843) 789-2080                  | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>COMPASS PROFESSIONAL SERVICES, LLC</b>                                        | Approval Date: 2/6/2017                                                              |
| 111 W. Jackson Blvd., 20th Fl.<br>Chicago IL 60604 Tele #: (312) 692-5000        | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>CONVERGEX EXECUTION SOLUTIONS LLC</b>                                         | Approval Date: 2/6/2017                                                              |
| 1633 Broadway, 48th Floor<br>New York NY 10019 Tele #: (212) 486-7500            | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>CREDIT SUISSE SECURITIES (USA) LLC</b>                                        | Approval Date: 2/6/2017                                                              |
| 11 Madison Avenue, 3rd Floor<br>New York NY 10010 Tele #: (212) 325-2000         | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>CUTLER GROUP, LP</b>                                                          | Approval Date: 2/6/2017                                                              |
| 101 Montgomery Street, Ste. 700<br>San Francisco CA 94104 Tele #: (415) 293-3956 | <b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER/EEM: ORDER FLOW          |
| <b>DASH FINANCIAL TECHNOLOGIES LLC</b>                                           | Approval Date: 2/6/2017                                                              |
| 311 S. Wacker Drive, Ste. 1000<br>Chicago IL 60606 Tele #: (847) 550-1730        | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>DEUTSCHE BANK SECURITIES INC.</b>                                             | Approval Date: 2/6/2017                                                              |
| 60 Wall Street<br>New York NY 10005 Tele #: (212) 250-2500                       | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>GLOBAL EXECUTION BROKERS, LP</b>                                              | Approval Date: 2/6/2017                                                              |
| 401 City Avenue, Ste. 200<br>Bala Cynwyd PA 19004 Tele #: (610) 617-2600         | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |
| <b>GOLDMAN SACHS &amp; CO. LLC</b>                                               | Approval Date: 2/6/2017                                                              |
| 200 West Street<br>New York NY 10282 Tele #: (212) 902-1000                      | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>GROUP ONE TRADING LP</b>                                                      | Approval Date: 2/6/2017                                                              |
| 440 South La Salle, Ste. 3232<br>Chicago IL 60605 Tele #: (312) 347-8864         | <b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |

|                                                                                                                                    |                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>HILLTOP SECURITIES INC.</b><br>1201 Elm Street, Ste. 3500<br>Dallas TX 75270<br>Tele #: (214) 859-1800                          | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: CLEARANCE            |
| <b>HRT FINANCIAL LLC</b><br>32 Old Slip, 30th Floor<br>New York NY 10005<br>Tele #: (212) 293-1444                                 | Approval Date: 4/5/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |
| <b>IMC-CHICAGO, LLC D/B/A IMC FINANCIAL MARKETS</b><br>233 South Wacker Drive, #4300<br>Chicago IL 60606<br>Tele #: (312) 244-3300 | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER                          |
| <b>INSTINET, LLC</b><br>309 West 49th Street<br>New York NY 10019<br>Tele #: (212) 310-9500                                        | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>INTERACTIVE BROKERS LLC</b><br>One Pickwick Plaza, 2nd Fl.<br>Greenwich CT 06830<br>Tele #: (203) 618-5710                      | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>ITG DERIVATIVES LLC</b><br>601 S. LaSalle, Ste. 300<br>Chicago IL 60605<br>Tele #: (312) 935-0125                               | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |
| <b>J.P. MORGAN SECURITIES LLC</b><br>383 Madison Avenue<br>New York NY 10179<br>Tele #: (201) 595-8471                             | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>JEFFERIES LLC</b><br>520 Madison Avenue<br>New York NY 10022<br>Tele #: (212) 284-2300                                          | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>KCG AMERICAS LLC</b><br>300 Vesey Street<br>New York NY 10282<br>Tele #: (201) 386-2891                                         | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER: ORDER FLOW/CLEARANCE    |
| <b>MERRILL LYNCH PROFESSIONAL CLEARING CORP.</b><br>One Bryant Park, 6th Fl.<br>New York NY 10036<br>Tele #: (646) 743-1295        | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: CLEARANCE            |
| <b>MERRILL LYNCH, PIERCE, FENNER &amp; SMITH INCORPORAT</b><br>One Bryant Park<br>New York NY 10036<br>Tele #: (212) 449-1000      | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>MORGAN STANLEY &amp; CO. LLC</b><br>1585 Broadway<br>New York NY 10036<br>Tele #: (212) 761-4000                                | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER: ORDER FLOW/CLEARANCE    |
| <b>OPTIVER US LLC</b><br>130 E. Randolph Street, Ste. 1300<br>Chicago IL 60601<br>Tele #: (312) 821-9500                           | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>REGULAR MARKET MAKER                          |
| <b>PERSHING LLC</b><br>1 Pershing Plaza, 10th Fl.<br>Jersey City NJ 07399<br>Tele #: (201) 413-2000                                | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>SIMPLEX TRADING, LLC</b><br>230 So. LaSalle St., Ste. 4-100<br>Chicago IL 60604<br>Tele #: (312) 360-2440                       | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |
| <b>UBS SECURITIES LLC</b><br>1285 Avenue of the Americas<br>New York NY 10019<br>Tele #: (203) 719-3000                            | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>VOLANT LIQUIDITY, LLC</b><br>250 Vesey Street, Ste. 2601<br>New York NY 10281<br>Tele #: (646) 484-3000                         | Approval Date: 2/6/2017<br><b>PEARL Membership Activities:</b><br>ELECTRONIC EXCH. MEMBER: ORDER FLOW           |

|                                             |                                               |
|---------------------------------------------|-----------------------------------------------|
| <b>WEDBUSH SECURITIES INC.</b>              | Approval Date: 2/6/2017                       |
| 1000 Wilshire Boulevard, Suite 900          | <b>PEARL Membership Activities:</b>           |
| Los Angeles CA 90017 Tele #: (213) 688-8090 | ELECTRONIC EXCH. MEMBER: CLEARANCE            |
| <b>WELLS FARGO SECURITIES, LLC</b>          | Approval Date: 2/6/2017                       |
| 550 South Tryon Street, 6th Floor           | <b>PEARL Membership Activities:</b>           |
| Charlotte NC 28202 Tele #: (704) 715-6133   | ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>WOLVERINE EXECUTION SERVICES, LLC</b>    | Approval Date: 2/6/2017                       |
| 175 W. Jackson Blvd., Ste. 200              | <b>PEARL Membership Activities:</b>           |
| Chicago IL 60604 Tele #: (312) 884-4000     | ELECTRONIC EXCH. MEMBER: ORDER FLOW/CLEARANCE |
| <b>WOLVERINE TRADING, LLC</b>               | Approval Date: 2/6/2017                       |
| 175 W. Jackson Blvd., Ste. 200              | <b>PEARL Membership Activities:</b>           |
| Chicago IL 60604 Tele #: (312) 884-3490     | REGULAR MARKET MAKER                          |

## **EXHIBIT N**

### **Exhibit Request:**

**Provide a schedule for each of the following:**

- 1. The securities listed in the exchange, indicating for each the name of the issuer and a description of the security;**
- 2. The securities admitted to unlisted trading privileges, indicating for each the name of the issuer and a description of the security;**
- 3. The unregistered securities admitted to trading on the exchange which are exempt from registration under Section 12(a) of the Act. For each security listed, provide the name of the issuer and a description of the security, and the statutory exemption claimed (e.g. Rule 12a-6); and**
- 4. Other securities traded on the exchange, including for each the name of the issuer and a description of the security.**

### **Response:**

1. Attached is a list of the securities listed on the exchange as of May 19, 2017, indicating for each the name of the issuer and a description of the security.
2. None.
3. None.
4. None.

**PEARL Listings**  
(as of May 19, 2017)

| Underlying Symbol | Underlying Name                                  | Options Symbol | Instrument Type |
|-------------------|--------------------------------------------------|----------------|-----------------|
| A                 | AGILENT TECHNOLOGIES INC.                        | A              | Equity          |
| AA                | ALCOA CORPORATION                                | AA             | Equity          |
| AAL               | AMERICAN AIRLINES GROUP INC.                     | AAL            | Equity          |
| AAN               | AARON'S INC                                      | AAN            | Equity          |
| AAOI              | APPLIED OPTOELECTRONICS, INC.                    | AAOI           | Equity          |
| AAP               | ADVANCE AUTO PARTS INC.                          | AAP            | Equity          |
| AAPL              | APPLE INC.                                       | AAPL           | Equity          |
| AAXN              | AXON ENTERPRISE, INC.                            | AAXN           | Equity          |
| ABBV              | ABBVIE INC.                                      | ABBV           | Equity          |
| ABC               | AMERISOURCEBERGEN, CORP.                         | ABC            | Equity          |
| ABT               | ABBOTT LABORATORIES                              | ABT            | Equity          |
| ABX               | BARRICK GOLD CORPORATION                         | ABX            | Equity          |
| ACAD              | ACADIA PHARMACEUTICALS INC.                      | ACAD           | Equity          |
| ACHC              | ACADIA HEALTHCARE CO INC                         | ACHC           | Equity          |
| ACM               | AECOM TECHNOLOGY CORPORATION                     | ACM            | Equity          |
| ACN               | ACCENTURE PLC                                    | ACN            | Equity          |
| ACOR              | ACORDA THERAPEUTICS, INC.                        | ACOR           | Equity          |
| ACWI              | ISHARES MSCI ACWI INDEX FUND                     | ACWI           | ETF             |
| ADBE              | ADOBE SYSTEMS INC.                               | ADBE           | Equity          |
| ADI               | ANALOG DEVICES INC                               | ADI            | Equity          |
| ADM               | ARCHER DANIELS MIDLAND COMPANY                   | ADM            | Equity          |
| ADP               | AUTOMATIC DATA PROCESSING INC                    | ADP            | Equity          |
| ADSK              | AUTODESK, INC.                                   | ADSK           | Equity          |
| AEM               | AGNICO-EAGLE MINES LTD.                          | AEM            | Equity          |
| AEO               | AMERICAN EAGLE OUTFITTERS, INC.                  | AEO            | Equity          |
| AEP               | AMERICAN ELECTRIC POWER COMPANY, INC.            | AEP            | Equity          |
| AER               | AERCAP HOLDINGS NV                               | AER            | Equity          |
| AERI              | AERIE PHARMACEUTICALS, INC.                      | AERI           | Equity          |
| AES               | AES CORP.                                        | AES            | Equity          |
| AET               | AETNA INC.                                       | AET            | Equity          |
| AFL               | AFLAC INC.                                       | AFL            | Equity          |
| AFSI              | AMTRUST FINANCIAL SERVICES, INC. (10% STOCK DIV) | AFSI           | Equity          |
| AG                | FIRST MAJESTIC SILVER CORP                       | AG             | Equity          |
| AGI               | ALAMOS GOLD INC                                  | AGI            | Equity          |
| AGN               | ALLERGAN, INC.                                   | AGN            | Equity          |
| AGNC              | AMERICAN CAPITAL AGENCY CORPORATION              | AGNC           | Equity          |
| AGO               | ASSURED GUARANTY LTD.                            | AGO            | Equity          |
| AGQ               | PROSHARES ULTRA SILVER                           | AGQ            | ETF             |
| AIG               | AMERICAN INTERNATIONAL GROUP, INC.               | AIG            | Equity          |
| AKAM              | AKAMAI TECHNOLOGIES, INC.                        | AKAM           | Equity          |
| AKRX              | AKORN, INC.                                      | AKRX           | Equity          |
| AKS               | AK STEEL HOLDING CORPORATION                     | AKS            | Equity          |

| Underlying Symbol | Underlying Name                                        | Options Symbol | Instrument Type |
|-------------------|--------------------------------------------------------|----------------|-----------------|
| ALB               | ALBEMARLE CORPORATION                                  | ALB            | Equity          |
| ALGN              | ALIGN TECHNOLOGY INC.                                  | ALGN           | Equity          |
| ALK               | ALASKA AIR GROUP INC                                   | ALK            | Equity          |
| ALL               | THE ALLSTATE CORPORATION                               | ALL            | Equity          |
| ALLY              | ALLY FINANCIAL INC.                                    | ALLY           | Equity          |
| ALNY              | ALNYLAM PHARMACEUTICALS INC                            | ALNY           | Equity          |
| ALT               | ALTIMMUNE, INC.                                        | ALT            | Equity          |
| ALXN              | ALEXION PHARMACEUTICALS, INC.                          | ALXN           | Equity          |
| AMAT              | APPLIED MATERIALS, INC.                                | AMAT           | Equity          |
| AMBA              | AMBARELLA, INC.                                        | AMBA           | Equity          |
| AMBC              | AMBAC FINANCIAL GROUP, INC.                            | AMBC           | Equity          |
| AMD               | ADVANCED MICRO DEVICES, INC.                           | AMD            | Equity          |
| AMGN              | AMGEN INC.                                             | AMGN           | Equity          |
| AMJ               | JP MORGAN ALERIAN MLP INDEX ETN                        | AMJ            | ETF             |
| AMKR              | AMKOR TECHNOLOGY, INC.                                 | AMKR           | Equity          |
| AMLP              | ALERIAN MLP ETF                                        | AMLP           | ETF             |
| AMRN              | AMARIN CORPORATION PLC                                 | AMRN           | Equity          |
| AMT               | AMERICAN TOWER CL A                                    | AMT            | Equity          |
| AMTD              | AMERITRADE HOLDING CORP                                | AMTD           | Equity          |
| AMZN              | AMAZON.COM INC.                                        | AMZN           | Equity          |
| AN                | AUTONATION, INC                                        | AN             | Equity          |
| ANET              | ARISTA NETWORKS INC                                    | ANET           | Equity          |
| ANF               | ABERCROMBIE & FITCH COMPANY                            | ANF            | Equity          |
| ANTM              | ANTHEM, INC.                                           | ANTM           | Equity          |
| AOBC              | AMERICAN OUTDOOR BRANDS                                | AOBC           | Equity          |
| APA               | APACHE CORPORATION                                     | APA            | Equity          |
| APC               | ANADARKO PETROLEUM CORPORATION                         | APC            | Equity          |
| APD               | AIR PRODUCTS AND CHEMICALS, INC                        | APD            | Equity          |
| APO               | APOLLO GLOBAL MANAGEMENT LLC                           | APO            | Equity          |
| AR                | ANTERO RESOURCES CORPORATION                           | AR             | Equity          |
| ARCC              | ARES CAPITAL CORPORATION                               | ARCC           | Equity          |
| ARLZ              | ARALEZ PHARMACEUTICALS INC.,                           | ARLZ           | Equity          |
| ARNA              | ARENA PHARMACEUTICALS, INC.                            | ARNA           | Equity          |
| ARNC              | ARCONIC INC.                                           | ARNC           | Equity          |
| ARRS              | ARRIS GROUP INC.                                       | ARRS           | Equity          |
| ARRY              | ARRAY BIOPHARMA, INC.                                  | ARRY           | Equity          |
| ASH               | ASHLAND INC                                            | ASH            | Equity          |
| ASHR              | DEUTSCHE X-TRACKERS HARVEST CSI 300 CHINA A SHARES ETF | ASHR           | ETF             |
| ASML              | ASML HOLDING NV                                        | ASML           | Equity          |
| ASNA              | ASCENA RETAIL GROUP, INC.                              | ASNA           | Equity          |
| ASPS              | ALTISOURCE PORTFOLIO SOLUTIONS SA                      | ASPS           | Equity          |
| ATI               | ALLEGHENY TECHNOLOGIES, INC.                           | ATI            | Equity          |
| ATVI              | ACTIVISION BLIZZARD, INC.                              | ATVI           | Equity          |
| ATW               | ATWOOD OCEANICS , INC                                  | ATW            | Equity          |
| AU                | ANGLOGOLD ASHANTI LTD.                                 | AU             | Equity          |

| Underlying Symbol | Underlying Name                         | Options Symbol | Instrument Type |
|-------------------|-----------------------------------------|----------------|-----------------|
| AUY               | YAMANA GOLD, INC.                       | AUY            | Equity          |
| AVGO              | BROADCOM LIMITED                        | AVGO           | Equity          |
| AVP               | AVON PRODUCTS INC.                      | AVP            | Equity          |
| AVXL              | ANAVEX LIFE SCIENCES CORP.              | AVXL           | Equity          |
| AXDX              | ACCELERATE DIAGNOSTICS, INC.            | AXDX           | Equity          |
| AXL               | AMERICAN AXLE & MFG. HLDNGS             | AXL            | Equity          |
| AXON              | AXOVANT SCIENCES LTD.                   | AXON           | Equity          |
| AXP               | AMERICAN EXPRESS COMPANY                | AXP            | Equity          |
| AXTA              | AXALTA COATING SYSTEMS LTD.             | AXTA           | Equity          |
| AYI               | ACUITY BRANDS, INC.                     | AYI            | Equity          |
| AZN               | ASTRAZENECA                             | AZN            | Equity          |
| AZO               | AUTOZONE, INC.                          | AZO            | Equity          |
| BA                | THE BOEING COMPANY                      | BA             | Equity          |
| BABA              | ALIBABA GROUP HOLDING LTD               | BABA           | Equity          |
| BAC               | BANK OF AMERICA CORPORATION             | BAC            | Equity          |
| BANC              | BANC OF CALIFORNIA, INC.                | BANC           | Equity          |
| BAX               | BAXTER INTERNATIONAL INC.               | BAX            | Equity          |
| BBBY              | BED BATH & BEYOND INC.                  | BBBY           | Equity          |
| BBD               | BANCO BRADESCO S.A.                     | BBD            | Equity          |
| BBRY              | BLACKBERRY LIMITED                      | BBRY           | Equity          |
| BBT               | BB&T CORPORATION                        | BBT            | Equity          |
| BBY               | BEST BUY COMPANY, INC.                  | BBY            | Equity          |
| BCRX              | BIOCRIST PHARMACEUTICAS INC             | BCRX           | Equity          |
| BCS               | BARCLAYS PLC                            | BCS            | Equity          |
| BDX               | BECTON, DICKINSON AND CO                | BDX            | Equity          |
| BEN               | FRANKLIN RESOURCES INC.                 | BEN            | Equity          |
| BG                | BUNGE LIMITED                           | BG             | Equity          |
| BHI               | BAKER HUGHES INCORPORATED               | BHI            | Equity          |
| BHP               | BHP BILLITON LIMITED                    | BHP            | Equity          |
| BID               | SOTHEBY'S                               | BID            | Equity          |
| BIDU              | BAIDU, INC.                             | BIDU           | Equity          |
| BIG               | BIG LOTS INC.                           | BIG            | Equity          |
| BIIB              | BIOGEN IDEC INC.                        | BIIB           | Equity          |
| BK                | THE BANK OF NEW YORK MELLON CORPORATION | BK             | Equity          |
| BKD               | BROOKDALE SENIOR LIVING INC             | BKD            | Equity          |
| BKE               | THE BUCKLE, INC.                        | BKE            | Equity          |
| BKLN              | POWERSHARES SENIOR LOAN (ETF)           | BKLN           | ETF             |
| BKS               | BARNES & NOBLE, INC.                    | BKS            | Equity          |
| BLDR              | BUILDERS FIRSTSOURCE INC.               | BLDR           | Equity          |
| BLK               | BLACKROCK INC                           | BLK            | Equity          |
| BLL               | BALL CORPORATION                        | BLL            | Equity          |
| BLUE              | BLUEBIRD BIO INC                        | BLUE           | Equity          |
| BMRN              | BIOMARIN PHARMACEUTICAL INC.            | BMRN           | Equity          |
| BMY               | BRISTOL-MYERS SQUIBB COMPANY            | BMY            | Equity          |
| BOBE              | BOB EVANS FARMS, INC.                   | BOBE           | Equity          |

| Underlying Symbol | Underlying Name                    | Options Symbol | Instrument Type |
|-------------------|------------------------------------|----------------|-----------------|
| BOFI              | BOFI HOLDING, INC.                 | BOFI           | Equity          |
| BOIL              | PROSHARES ULTRA DJ-UBS NATURAL GAS | BOIL           | ETF             |
| BOX               | BOX, INC.                          | BOX            | Equity          |
| BP                | BP PLC                             | BP             | Equity          |
| BPT               | BP PRUDHOE BAY ROYALTY TRUST       | BPT            | Equity          |
| BRKB              | BERKSHIRE HATHAWAY INC.            | BRKB           | Equity          |
| BRS               | BRISTOW GROUP, INC.                | BRS            | Equity          |
| BSX               | BOSTON SCIENTIFIC CORPORATION      | BSX            | Equity          |
| BTI               | BRITISH AMERICAN TOBACCO PLC       | BTI            | Equity          |
| BUD               | ANHEUSER-BUSCH INBEV               | BUD            | Equity          |
| BUFF              | BLUE BUFFALO PET PRODUCTS, INC.    | BUFF           | Equity          |
| BURL              | BURLINGTON STORES INC              | BURL           | Equity          |
| BV                | BAZAARVOICE INC.                   | BV             | Equity          |
| BWA               | BORGWARNER INC.                    | BWA            | Equity          |
| BWLD              | BUFFALO WILD WINGS INC.            | BWLD           | Equity          |
| BX                | THE BLACKSTONE GROUP LP            | BX             | Equity          |
| BYD               | BOYD GAMING CORP.                  | BYD            | Equity          |
| C                 | CITIGROUP, INC.                    | C              | Equity          |
| CA                | CA, INC.                           | CA             | Equity          |
| CAH               | CARDINAL HEALTH INC                | CAH            | Equity          |
| CALM              | CAL-MAINE FOODS, INC.              | CALM           | Equity          |
| CAR               | AVIS BUDGET GROUP INC              | CAR            | Equity          |
| CARA              | CARA THERAPEUTICS INC.             | CARA           | Equity          |
| CASY              | CASEY'S GENERAL STORES, INC.       | CASY           | Equity          |
| CAT               | CATERPILLAR INC.                   | CAT            | Equity          |
| CB                | CHUBB LIMITED                      | CB             | Equity          |
| CBI               | CHICAGO BRIDGE & IRON COMPANY N.V. | CBI            | Equity          |
| CBL               | CBL & ASSOCIATES PROPERTIES, INC.  | CBL            | Equity          |
| CBOE              | CBOE HOLDINGS, INC.                | CBOE           | Equity          |
| CBS               | CBS CORPORATION                    | CBS            | Equity          |
| CC                | THE CHEMOURS COMPANY               | CC             | Equity          |
| CCI               | CROWN CASTLE INTER.                | CCI            | Equity          |
| CCJ               | CAMECO CORPORATION                 | CCJ            | Equity          |
| CCL               | CARNIVAL CORPORATION               | CCL            | Equity          |
| CCMP              | CABOT MICROELECTRONICS CORPORATION | CCMP           | Equity          |
| CDE               | COEUR D' ALENE MINES CORP          | CDE            | Equity          |
| CDK               | CDK GLOBAL, INC.                   | CDK            | Equity          |
| CDNS              | CADENCE DESIGN SYSTEMS, I          | CDNS           | Equity          |
| CELG              | CELGENE CORPORATION                | CELG           | Equity          |
| CEMP              | CEMPRA, INC.                       | CEMP           | Equity          |
| CENX              | CENTURY ALUMINUM COMPANY           | CENX           | Equity          |
| CERN              | CERNER CORPORATION                 | CERN           | Equity          |
| CF                | CF INDUSTRIES HOLDINGS, INC.       | CF             | Equity          |
| CFG               | CITIZENS FINANCIAL GROUP, INC.     | CFG            | Equity          |
| CHK               | CHESAPEAKE ENERGY CORPORATION      | CHK            | Equity          |

| Underlying Symbol | Underlying Name                        | Options Symbol | Instrument Type |
|-------------------|----------------------------------------|----------------|-----------------|
| CHKP              | CHECK POINT SOFTWARE TECHNOLOGIES LTD. | CHKP           | Equity          |
| CHL               | CHINA MOBILE LIMITED                   | CHL            | Equity          |
| CHRW              | CH ROBINSON WORLDWIDE INC.             | CHRW           | Equity          |
| CHS               | CHICO'S FAS, INC.                      | CHS            | Equity          |
| CHTR              | CHARTER COMMUNICATIONS INC. CL A       | CHTR           | Equity          |
| CI                | CIGNA CORPORATION                      | CI             | Equity          |
| CIEN              | CIENA CORPORATION                      | CIEN           | Equity          |
| CIT               | CIT GROUP, INC.                        | CIT            | Equity          |
| CL                | COLGATE-PALMOLIVE COMPANY              | CL             | Equity          |
| CLF               | CLIFFS NATURAL RESOURCES INC.          | CLF            | Equity          |
| CLNE              | CLEAN ENERGY FUELS CORPORATION         | CLNE           | Equity          |
| CLR               | CONTINENTAL RESOURCES, INC.            | CLR            | Equity          |
| CLVS              | CLOVIS ONCOLOGY, INC.                  | CLVS           | Equity          |
| CLX               | CLOROX CO                              | CLX            | Equity          |
| CMA               | COMERICA, INC.                         | CMA            | Equity          |
| CMCSA             | COMCAST CORPORATION                    | CMCSA          | Equity          |
| CME               | CME GROUP INC.                         | CME            | Equity          |
| CMG               | CHIPOTLE MEXICAN GRILL, INC.           | CMG            | Equity          |
| CMI               | CUMMINS INC.                           | CMI            | Equity          |
| CMRE              | COSTAMARE INC.                         | CMRE           | Equity          |
| CNC               | CENTENE CORP                           | CNC            | Equity          |
| CNP               | CENTERPOINT ENERGY, INC.               | CNP            | Equity          |
| CNQ               | CANADIAN NATURAL RESOURCES LIMITED     | CNQ            | Equity          |
| CNX               | CONSOL ENERGY INC.                     | CNX            | Equity          |
| COF               | CAPITAL ONE FINANCIAL CORPORATION      | COF            | Equity          |
| COG               | CABOT OIL & GAS CORPORATION            | COG            | Equity          |
| COH               | COACH, INC.                            | COH            | Equity          |
| COL               | ROCKWELL COLLINS, INC.                 | COL            | Equity          |
| COP               | CONOCOPHILLIPS                         | COP            | Equity          |
| COST              | COSTCO WHOLESALE CORPORATION           | COST           | Equity          |
| COT               | COTT CORPORATION                       | COT            | Equity          |
| COTY              | COTY INC.                              | COTY           | Equity          |
| CP                | CANADIAN PACIFIC RAILWAY LIMITED       | CP             | Equity          |
| CPB               | CAMPBELL SOUP CO                       | CPB            | Equity          |
| CPE               | CALLON PETROLEUM COMPANY               | CPE            | Equity          |
| CPN               | CALPINE CORPORATION                    | CPN            | Equity          |
| CRAY              | CRAY INC                               | CRAY           | Equity          |
| CRBP              | CORBUS PHARMACEUTICALS HOLDINGS, INC.  | CRBP           | Equity          |
| CRC               | CALIFORNIA RESOURCES CORPORATION       | CRC            | Equity          |
| CREE              | CREE, INC.                             | CREE           | Equity          |
| CRI               | CARTER'S , INC.                        | CRI            | Equity          |
| CRK               | COMSTOCK RESOURCES INC.                | CRK            | Equity          |
| CRM               | SALESFORCE.COM, INC                    | CRM            | Equity          |
| CRTO              | CRITEO SA                              | CRTO           | Equity          |
| CRUS              | CIRRUS LOGIC INC.                      | CRUS           | Equity          |

| Underlying Symbol | Underlying Name                             | Options Symbol | Instrument Type |
|-------------------|---------------------------------------------|----------------|-----------------|
| CRZO              | CARRIZO OIL & GAS, INC                      | CRZO           | Equity          |
| CS                | CREDIT SUISSE GROUP AG                      | CS             | Equity          |
| CSCO              | CISCO SYSTEMS, INC.                         | CSCO           | Equity          |
| CSIQ              | CANADIAN SOLAR INC                          | CSIQ           | Equity          |
| CSOD              | CORNERSTONE ONDEMAND, INC.                  | CSOD           | Equity          |
| CSX               | CSX CORPORATION                             | CSX            | Equity          |
| CTL               | CENTURYLINK, INC.                           | CTL            | Equity          |
| CTRP              | CTRP.COM INTERNATIONAL LTD.                 | CTRP           | Equity          |
| CTSH              | COGNIZANT TECHNOLOGY SOLUTIONS CORPORATION  | CTSH           | Equity          |
| CTXS              | CITRIX SYSTEMS, INC.                        | CTXS           | Equity          |
| CUDA              | BARRACUDA NETWORKS, INC.                    | CUDA           | Equity          |
| CVI               | CVR ENERGY, INC.                            | CVI            | Equity          |
| CVRR              | CVR REFINING, LP                            | CVRR           | Equity          |
| CVS               | CVS CAREMARK CORPORATION                    | CVS            | Equity          |
| CVX               | CHEVRON CORPORATION                         | CVX            | Equity          |
| CX                | CEMEX, S.A.B. DE C.V.                       | CX             | Equity          |
| CXO               | CONCHO RESOURCES, INC.                      | CXO            | Equity          |
| CXW               | CORRECTIONS CORPORATION OF AMERICA          | CXW            | Equity          |
| CY                | CYPRESS SEMICONDUCTOR CORPORATION           | CY             | Equity          |
| CYBR              | CYBERARK SOFTWARE, LTD.                     | CYBR           | Equity          |
| CYH               | COMMUNITY HEALTH SYSTEMS, INC.              | CYH            | Equity          |
| CZR               | CAESARS ENTERTAINMENT CORPORATION           | CZR            | Equity          |
| D                 | DOMINION RESOURCES                          | D              | Equity          |
| DAL               | DELTA AIR LINES INC.                        | DAL            | Equity          |
| DAR               | DARLING INTERNATIONAL, INC.                 | DAR            | Equity          |
| DATA              | TABLEAU SOFTWARE INC.                       | DATA           | Equity          |
| DB                | DEUTSCHE BANK AG                            | DB             | Equity          |
| DBA               | POWERSHARES DB AGRICULTURE                  | DBA            | ETF             |
| DBC               | POWESHARES DB COMMODITY INDEX TRACKING FUND | DBC            | ETF             |
| DD                | E. I. DU PONT DE NEMOURS AND COMPANY        | DD             | Equity          |
| DDD               | 3D SYSTEMS CORPORATION                      | DDD            | Equity          |
| DDR               | DDR CORP.                                   | DDR            | Equity          |
| DDS               | DILLARD'S INC                               | DDS            | Equity          |
| DE                | DEERE & COMPANY                             | DE             | Equity          |
| DECK              | DECKERS OUTDOOR CORPORATION                 | DECK           | Equity          |
| DEO               | DIAGEO PLC                                  | DEO            | Equity          |
| DEPO              | DEPOMED, INC.                               | DEPO           | Equity          |
| DFS               | DISCOVER FINANCIAL SERVICES                 | DFS            | Equity          |
| DG                | DOLLAR GENERAL CORPORATION                  | DG             | Equity          |
| DHI               | DR HORTON INC.                              | DHI            | Equity          |
| DHR               | DANAHER CORPORATION                         | DHR            | Equity          |
| DHT               | DHT HOLDINGS, INC.                          | DHT            | Equity          |
| DIA               | SPDR DOW JONES INDUSTRIAL AVERAGE           | DIA            | ETF             |
| DIN               | DINEEQUITY, INC                             | DIN            | Equity          |
| DIS               | THE WALT DISNEY COMPANY                     | DIS            | Equity          |

| Underlying Symbol | Underlying Name                           | Options Symbol | Instrument Type |
|-------------------|-------------------------------------------|----------------|-----------------|
| DISCA             | DISCOVERY COMMUNICATIONS, INC. CLASS A    | DISCA          | Equity          |
| DISH              | DISH NETWORK CORPORATION                  | DISH           | Equity          |
| DKS               | DICK'S SPORTING GOODS INC.                | DKS            | Equity          |
| DLPH              | DELPHI AUTOMOTIVE PLC                     | DLPH           | Equity          |
| DLR               | DIGITAL REALTY TRUST INC                  | DLR            | Equity          |
| DLTR              | DOLLAR TREE, INC.                         | DLTR           | Equity          |
| DNKN              | DUNKIN' BRANDS GROUP, INC.                | DNKN           | Equity          |
| DNR               | DENBURY RESOURCES INC.                    | DNR            | Equity          |
| DO                | DIAMOND OFFSHORE DRILLING, INC            | DO             | Equity          |
| DOW               | THE DOW CHEMICAL COMPANY                  | DOW            | Equity          |
| DPZ               | DOMINO'S PIZZA INC                        | DPZ            | Equity          |
| DRI               | DARDEN RESTAURANTS, INC.                  | DRI            | Equity          |
| DSX               | DIANA SHIPPING INC                        | DSX            | Equity          |
| DUK               | DUKE ENERGY CORPORATION                   | DUK            | Equity          |
| DUST              | DIREXION DAILY GOLD MINERS BEAR 3X SHARES | DUST           | ETF             |
| DVA               | DAVITA HEALTHCARE PARTNERS INC.           | DVA            | Equity          |
| DVAX              | DYNAVAX TECHNOLOGIES CORPORATION          | DVAX           | Equity          |
| DVN               | DEVON ENERGY CORPORATION                  | DVN            | Equity          |
| DXC               | DXC TECHNOLOGY COMPANY                    | DXC            | Equity          |
| DXCM              | DEXCOM, INC.                              | DXCM           | Equity          |
| DXD               | PROSHARES ULTRASHORT DOW30 (25 SHARES)    | DXD            | ETF             |
| DXJ               | WISDOMTREE JAPAN HEDGED EQUITY FUND       | DXJ            | ETF             |
| DY                | DYCOM INDUSTRIES INC.                     | DY             | Equity          |
| DYN               | DYNEGY INC (MERGER)                       | DYN            | Equity          |
| EA                | ELECTRONIC ARTS INC.                      | EA             | Equity          |
| EAT               | BRINKER INT'L, INC.                       | EAT            | Equity          |
| EBAY              | EBAY INC.                                 | EBAY           | Equity          |
| EBIX              | EBIX, INC.                                | EBIX           | Equity          |
| ECA               | ENCANA CORPORATION                        | ECA            | Equity          |
| ECL               | ECOLAB INC.                               | ECL            | Equity          |
| ED                | CON EDISON                                | ED             | Equity          |
| EDU               | NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP | EDU            | Equity          |
| EEM               | ISHARES MSCI EMERGING MARKETS INDEX       | EEM            | ETF             |
| EEP               | ENBRIDGE ENERGY PARTNERS, L.P.            | EEP            | Equity          |
| EFA               | ISHARES MSCI EAFE INDEX                   | EFA            | ETF             |
| EGO               | ELDORADO GOLD CORPORATION                 | EGO            | Equity          |
| EL                | THE EST                                   | EL             | Equity          |
| ELLI              | ELLIE MAE INC.                            | ELLI           | Equity          |
| EMES              | EMERGE ENERGY SERVICES LP                 | EMES           | Equity          |
| EMN               | EASTMAN CHEMICAL COMPANY                  | EMN            | Equity          |
| EMR               | EMERSON ELECTRIC COMPANY                  | EMR            | Equity          |
| ENB               | ENBRIDGE INC                              | ENB            | Equity          |
| ENDP              | ENDO HEALTH SOLUTIONS INC.                | ENDP           | Equity          |
| ENR               | ENERGIZER HOLDINGS, INC.                  | ENR            | Equity          |
| EOG               | EOG RESOURCES, INC.                       | EOG            | Equity          |

| Underlying Symbol | Underlying Name                         | Options Symbol | Instrument Type |
|-------------------|-----------------------------------------|----------------|-----------------|
| EPD               | ENTERPRISE PRODUCTS PARTNERS L.P.       | EPD            | Equity          |
| EPE               | EP ENERGY CORPORATION                   | EPE            | Equity          |
| EPI               | WISDOMTREE INDIA EARNING FUND           | EPI            | ETF             |
| EQIX              | EQUINIX, INC.                           | EQIX           | Equity          |
| EQR               | EQUITY RESIDENTIAL                      | EQR            | Equity          |
| EQT               | EQT CORPORATION                         | EQT            | Equity          |
| ERIC              | ERICSSON                                | ERIC           | Equity          |
| ERX               | DIREXION DAILY ENERGY BULL 3X SHARES    | ERX            | ETF             |
| ESPR              | ESPERION THERAPEUTICS, INC.             | ESPR           | Equity          |
| ESRX              | EXPRESS SCRIPTS HOLDING COMPANY         | ESRX           | Equity          |
| ESV               | ENSCO PLC                               | ESV            | Equity          |
| ETE               | ENERGY TRANSFER EQUITY, L.P.            | ETE            | Equity          |
| ETFC              | E*TRADE FINANCIAL CORPORATION           | ETFC           | Equity          |
| ETN               | EATON CORPORATION PLC                   | ETN            | Equity          |
| ETP               | ENERGY TRANSFER PARTNERS, L.P.          | ETP            | Equity          |
| ETSY              | ETSY, INC.                              | ETSY           | Equity          |
| EUO               | PROSHARES ULTRASHORT EURO               | EUO            | ETF             |
| EW                | EDWARDS LIFESCIENCES CORP.              | EW             | Equity          |
| EWA               | ISHARES MSCI AUSTRALIA INDEX            | EWA            | ETF             |
| EWC               | ISHARES CANADA INDEX ETF                | EWC            | ETF             |
| EWG               | ISHARES MSCI GERMANY INDEX FUND ETF     | EWG            | ETF             |
| EWJ               | ISHARES MSCI JAPAN INDEX                | EWJ            | ETF             |
| EWT               | ISHARES TAIWAN INDEX ETF                | EWT            | ETF             |
| EWV               | ISHARES MSCI MEXICO CAPPED ETF          | EWV            | ETF             |
| EWY               | ISHARES MSCI SOUTH KOREA CAPPED INDEX   | EWY            | ETF             |
| EWZ               | ISHARES MSCI BRAZIL CAPPED INDEX        | EWZ            | ETF             |
| EXAS              | EXACT SCIENCES CORP.                    | EXAS           | Equity          |
| EXC               | EXELON CORPORATION                      | EXC            | Equity          |
| EXEL              | EXELIXIS, INC.                          | EXEL           | Equity          |
| EXK               | ENDEAVOUR SILVER CORP.                  | EXK            | Equity          |
| EXP               | EAGLE MATERIALS INC.                    | EXP            | Equity          |
| EXPE              | EXPEDIA INC.                            | EXPE           | Equity          |
| EXPR              | EXPRESS INC.                            | EXPR           | Equity          |
| F                 | FORD MOTOR COMPANY                      | F              | Equity          |
| FANG              | DIAMONDBACK ENERGY, INC.                | FANG           | Equity          |
| FAS               | DIREXION DAILY FINANCIAL BULL 3X SHARES | FAS            | ETF             |
| FAST              | FASTENAL COMPANY                        | FAST           | Equity          |
| FAZ               | DIREXION DAILY FINANCIAL BEAR 3X SHARES | FAZ            | ETF             |
| FB                | FACEBOOK, INC.                          | FB             | Equity          |
| FCAU              | FIAT CHRYSLER AUTOMOBILES N.V.          | FCAU           | Equity          |
| FCX               | FREEPORT-MCMORAN COPPER & GOLD INC.     | FCX            | Equity          |
| FDC               | FIRST DATA CORPORATION                  | FDC            | Equity          |
| FDX               | FEDEX CORPORATION                       | FDX            | Equity          |
| FE                | FIRSTENERGY CORP.                       | FE             | Equity          |
| FEYE              | FIREEYE, INC.                           | FEYE           | Equity          |

| Underlying Symbol | Underlying Name                             | Options Symbol | Instrument Type |
|-------------------|---------------------------------------------|----------------|-----------------|
| FEZ               | SPDR EURO STOXX 50 ETF                      | FEZ            | ETF             |
| FFIV              | F5 NETWORKS, INC.                           | FFIV           | Equity          |
| FGP               | FERRELLGAS PARTNERS, L.P.                   | FGP            | Equity          |
| FINL              | THE FINISH LINE-CLASS A                     | FINL           | Equity          |
| FIT               | FITBIT, INC.                                | FIT            | Equity          |
| FITB              | FIFTH THIRD BANCORP                         | FITB           | Equity          |
| FIVE              | FIVE BELOW INC                              | FIVE           | Equity          |
| FL                | FOOT LOCKER, INC.                           | FL             | Equity          |
| FLEX              | FLEXTRONICS LTD                             | FLEX           | Equity          |
| FLR               | FLUOR CORPORATION                           | FLR            | Equity          |
| FLT               | FLEETCOR TECHNOLOGIES INC.                  | FLT            | Equity          |
| FMC               | FMC CORPORATION                             | FMC            | Equity          |
| FMI               | FOUNDATION MEDICINE, INC.                   | FMI            | Equity          |
| FMSA              | FMSA HOLDINGS INC.                          | FMSA           | Equity          |
| FN                | FABRINET                                    | FN             | Equity          |
| FNSR              | FINISAR CORPORATION                         | FNSR           | Equity          |
| FNV               | FRANCO-NEVADA CORPORATION                   | FNV            | Equity          |
| FOLD              | AMICUS THERAPEUTICS, INC.                   | FOLD           | Equity          |
| FOSL              | FOSSIL, INC.                                | FOSL           | Equity          |
| FOXA              | TWENTY-FIRST CENTURY FOX, INC.              | FOXA           | Equity          |
| FRED              | FRED'S, INC.                                | FRED           | Equity          |
| FRO               | FRONTLINE LIMITED                           | FRO            | Equity          |
| FSLR              | FIRST SOLAR, INC.                           | FSLR           | Equity          |
| FSM               | FORTUNA SILVER MINES INC.                   | FSM            | Equity          |
| FTI               | FMC TECHNOLOGIES, INC.                      | FTI            | Equity          |
| FTK               | FLOTEK INDUSTRIES INC                       | FTK            | Equity          |
| FTNT              | FORTINET INC.                               | FTNT           | Equity          |
| FTR               | FRONTIER COMMUNICATIONS CORPORATION         | FTR            | Equity          |
| FXB               | CURRENCYSHARES BRITISH POUND STERLING TRUST | FXB            | ETF             |
| FXE               | CURRENCYSHARES EURO TRUST                   | FXE            | ETF             |
| FXI               | ISHARES FTSE CHINA 25 INDEX FUND            | FXI            | ETF             |
| FXY               | CURRENCYSHARES JAPANESE YEN TRUST           | FXY            | ETF             |
| GBT               | GLOBAL BLOOD THERAPEUTICS, INC.             | GBT            | Equity          |
| GBX               | THE GREENBRIER COMPANIES, INC.              | GBX            | Equity          |
| GD                | GENERAL DYNAMICS CORPORATION                | GD             | Equity          |
| GDDY              | GODADDY INC.                                | GDDY           | Equity          |
| GDX               | MARKET VECTORS GOLD MINERS ETF              | GDX            | ETF             |
| GDXJ              | MARKET VECTORS JUNIOR GOLD MINERS ETF       | GDXJ           | ETF             |
| GE                | GENERAL ELECTRIC COMPANY                    | GE             | Equity          |
| GEL               | GENESIS ENERGY L.P.                         | GEL            | Equity          |
| GERN              | GERON CORPORATION                           | GERN           | Equity          |
| GES               | GUESS? INC.                                 | GES            | Equity          |
| GFI               | GOLD FIELDS LTD.                            | GFI            | Equity          |
| GG                | GOLDCORP INC.                               | GG             | Equity          |
| GGAL              | GRUPO FINANCIERO GALICIA S.A.               | GGAL           | Equity          |

| Underlying Symbol | Underlying Name                       | Options Symbol | Instrument Type |
|-------------------|---------------------------------------|----------------|-----------------|
| GGB               | GERDAU S.A. (ADR)                     | GGB            | Equity          |
| GGP               | GENERAL GROWTH PROPERTIES, INC (DIST) | GGP            | Equity          |
| GIL               | GILDAN ACTIVEWEAR INC                 | GIL            | Equity          |
| GILD              | GILEAD SCIENCES INC.                  | GILD           | Equity          |
| GIMO              | GIGAMON INC.                          | GIMO           | Equity          |
| GIS               | GENERAL MILLS, INC.                   | GIS            | Equity          |
| GLD               | SPDR GOLD TRUST                       | GLD            | ETF             |
| GLL               | PROSHARES ULTRASHORT GOLD             | GLL            | ETF             |
| GLNG              | GOLAR LNG LTD                         | GLNG           | Equity          |
| GLUU              | GLU MOBILE INC                        | GLUU           | Equity          |
| GLW               | CORNING INC.                          | GLW            | Equity          |
| GM                | GENERAL MOTORS COMPANY                | GM             | Equity          |
| GME               | GAMESTOP CORPORATION                  | GME            | Equity          |
| GMLP              | GOLAR LNG PARTNERS LP                 | GMLP           | Equity          |
| GNC               | GNC HOLDINGS INC.                     | GNC            | Equity          |
| GNMX              | AEVI GENOMIC MEDICINE, INC.           | GNMX           | Equity          |
| GNTX              | GENTEX CORP.                          | GNTX           | Equity          |
| GNW               | GENWORTH FINANCIAL INC.               | GNW            | Equity          |
| GOGO              | GOGO, INC.                            | GOGO           | Equity          |
| GOLD              | RANDGOLD RESOURCES LIMITED            | GOLD           | Equity          |
| GOOG              | ALPHABET INC. CLASS C                 | GOOG           | Equity          |
| GOOGL             | ALPHABET INC. CLASS A                 | GOOGL          | Equity          |
| GOOS              | CANADA GOOSE HOLDINGS INC.            | GOOS           | Equity          |
| GPOR              | GULFPORT ENERGY CORPORATION           | GPOR           | Equity          |
| GPRE              | GREEN PLAINS RENEWABLE ENERGY, INC.   | GPRE           | Equity          |
| GPRO              | GOPRO, INC.                           | GPRO           | Equity          |
| GPS               | GAP INC.                              | GPS            | Equity          |
| GRA               | W.R. GRACE & CO.                      | GRA            | Equity          |
| GRMN              | GARMIN LTD.                           | GRMN           | Equity          |
| GRPN              | GROUPON, INC.                         | GRPN           | Equity          |
| GRUB              | GRUBHUB INC.                          | GRUB           | Equity          |
| GS                | THE GOLDMAN SACHS GROUP, INC.         | GS             | Equity          |
| GSAT              | GLOBALSTAR, INC                       | GSAT           | Equity          |
| GSK               | GLAXOSMITHKLINE PLC                   | GSK            | Equity          |
| GT                | GOODYEAR TIRE & RUBBER COMPANY        | GT             | Equity          |
| GTN               | GRAY TELEVISION, INC.                 | GTN            | Equity          |
| GWPH              | GW PHARMACEUTICALS PLC                | GWPH           | Equity          |
| GWR               | GENESEE & WYOMING INC.                | GWR            | Equity          |
| GWW               | GRAINGER, W.W. INC.                   | GWW            | Equity          |
| HAIN              | THE HAIN CELESTIAL GROUP, INC.        | HAIN           | Equity          |
| HAL               | HALLIBURTON COMPANY                   | HAL            | Equity          |
| HALO              | HALOZYME THERAPEUTICS INC.            | HALO           | Equity          |
| HAS               | HASBRO INC.                           | HAS            | Equity          |
| HBAN              | HUNTINGTON BANCSHARES INCORPORATED    | HBAN           | Equity          |
| HBI               | HANESBRANDS INC.                      | HBI            | Equity          |

| Underlying Symbol | Underlying Name                                | Options Symbol | Instrument Type |
|-------------------|------------------------------------------------|----------------|-----------------|
| HCA               | HCA HOLDINGS, INC.                             | HCA            | Equity          |
| HCLP              | HI-CRUSH PARTNERS LP                           | HCLP           | Equity          |
| HCN               | WELLTOWER INC.                                 | HCN            | Equity          |
| HCP               | HCP, INC.                                      | HCP            | Equity          |
| HD                | THE HOME DEPOT, INC.                           | HD             | Equity          |
| HDB               | HDFC BANK LTD                                  | HDB            | Equity          |
| HEDJ              | WISDOMTREE EUROPE HEDGED EQUITY FUND           | HEDJ           | ETF             |
| HES               | HESS CORPORATION                               | HES            | Equity          |
| HFC               | HOLLYFRONTIER CORPORATION                      | HFC            | Equity          |
| HIG               | THE HARTFORD FINANCIAL SERVICES GROUP, INC.    | HIG            | Equity          |
| HIMX              | HIMAX TECHNOLOGIES, INC.                       | HIMX           | Equity          |
| HL                | HECLA MINING COMPANY                           | HL             | Equity          |
| HLF               | HERBALIFE LTD.                                 | HLF            | Equity          |
| HLT               | HILTON WORLDWIDE HOLDINGS INC.                 | HLT            | Equity          |
| HMY               | HARMONY GOLD MINING COMPANY LIMITED            | HMY            | Equity          |
| HOG               | HARLEY-DAVIDSON, INC.                          | HOG            | Equity          |
| HOLX              | HOLOGIC, INC.                                  | HOLX           | Equity          |
| HON               | HONEYWELL INTERNATIONAL INC.                   | HON            | Equity          |
| HOV               | HOVNANIAN ENTERPRISES INC.                     | HOV            | Equity          |
| HP                | HELMERICH & PAYNE INC                          | HP             | Equity          |
| HPE               | HEWLETT PACKARD ENTERPRISE COMPANY             | HPE            | Equity          |
| HPQ               | HP INC.                                        | HPQ            | Equity          |
| HPT               | HOSPITALITY PROPERTIES TRUST                   | HPT            | Equity          |
| HRB               | H&R BLOCK, INC.                                | HRB            | Equity          |
| HRL               | HORMEL FOODS CORPORATION                       | HRL            | Equity          |
| HSBC              | HSBC HOLDINGS PLC                              | HSBC           | Equity          |
| HST               | HOST HOTELS & RESORTS                          | HST            | Equity          |
| HSY               | HERSHEY CO THE                                 | HSY            | Equity          |
| HTZ               | HERTZ GLOBAL HOLDINGS, INC                     | HTZ            | Equity          |
| HUM               | HUMANA INC.                                    | HUM            | Equity          |
| HUN               | HUNTSMAN CORPORATION                           | HUN            | Equity          |
| HYG               | ISHARES IBOX \$ HIGH YIELD CORPORATE BOND      | HYG            | ETF             |
| HZNP              | HORIZON PHARMA, INC.                           | HZNP           | Equity          |
| IAC               | IAC/INTERACTIVECORP                            | IAC            | Equity          |
| IAG               | IAMGOLD CORPORATION                            | IAG            | Equity          |
| IBB               | ISHARES NASDAQ BIOTECHNOLOGY                   | IBB            | ETF             |
| IBM               | INTERNATIONAL BUSINESS MACHINES CORPORATION    | IBM            | Equity          |
| IBN               | ICICI BANK LIMITED                             | IBN            | Equity          |
| ICE               | INTERCONTINENTAL EXCHANGE INC                  | ICE            | Equity          |
| ICPT              | INTERCEPT PHARMACEUTICALS, INC.                | ICPT           | Equity          |
| IDCC              | INTERDIGITAL, INC.                             | IDCC           | Equity          |
| IDTI              | INTEGRATED DEVICE TECH.                        | IDTI           | Equity          |
| IEF               | ISHARES BARCLAYS 7 -10 YEAR TREASURY BOND FUND | IEF            | ETF             |
| ILG               | ILG, INC.                                      | ILG            | Equity          |
| ILMN              | ILLUMINA INC.                                  | ILMN           | Equity          |

| Underlying Symbol | Underlying Name                                    | Options Symbol | Instrument Type |
|-------------------|----------------------------------------------------|----------------|-----------------|
| IMAX              | IMAX CORPORATION                                   | IMAX           | Equity          |
| IMMR              | IMMERSION CORP                                     | IMMR           | Equity          |
| IMMU              | IMMUNOMEDICS INC                                   | IMMU           | Equity          |
| IMPV              | IMPERVA INC.                                       | IMPV           | Equity          |
| INCY              | INCYTE GENOMICS INC                                | INCY           | Equity          |
| INDA              | ISHARES MSCI INDIA                                 | INDA           | ETF             |
| INFN              | INFINERA CORPORATION                               | INFN           | Equity          |
| INFY              | INFOSYS LTD.                                       | INFY           | Equity          |
| ING               | ING GROEP N.V.                                     | ING            | Equity          |
| INSY              | INSYS THERAPEUTICS INC                             | INSY           | Equity          |
| INTC              | INTEL CORPORATION                                  | INTC           | Equity          |
| INTU              | INTUIT CORP                                        | INTU           | Equity          |
| INVA              | INNOVIVA, INC.                                     | INVA           | Equity          |
| IONS              | IONIS PHARMACEUTICALS, INC.                        | IONS           | Equity          |
| IP                | INTERNATIONAL PAPER COMPANY                        | IP             | Equity          |
| IPHI              | INPHI CORPORATION                                  | IPHI           | Equity          |
| IR                | INGERSOLL-RAND PLC                                 | IR             | Equity          |
| IRBT              | IROBOT CORPORATION                                 | IRBT           | Equity          |
| IRDM              | IRIDIUM COMMUNICATIONS INC.                        | IRDM           | Equity          |
| ISRG              | INTUITIVE SURGICAL, INC.                           | ISRG           | Equity          |
| ITB               | ISHARES U.S. HOME CONSTRUCTION ETF                 | ITB            | ETF             |
| ITUB              | ITAU UNIBANCO HOLDING S.A.                         | ITUB           | Equity          |
| ITW               | ILLINOIS TOOL WORKS INC.                           | ITW            | Equity          |
| IVZ               | INVESCO LTD                                        | IVZ            | Equity          |
| IWM               | ISHARES RUSSELL 2000 INDEX                         | IWM            | ETF             |
| IYR               | ISHARES DOW JONES US REAL ESTATE                   | IYR            | ETF             |
| IYT               | ISHARES DOW JONES TRANSPORTATION AVERAGE           | IYT            | ETF             |
| JACK              | JACK IN THE BOX, INC                               | JACK           | Equity          |
| JAZZ              | JAZZ PHARMACEUTICALS PLC                           | JAZZ           | Equity          |
| JBHT              | JB HUNT TRANSPORT SERVICES INC.                    | JBHT           | Equity          |
| JBLU              | JETBLUE AIRWAYS CORPORATI                          | JBLU           | Equity          |
| JCI               | JOHNSON CONTROLS INTERNATIONAL PLC                 | JCI            | Equity          |
| JCP               | J. C. PENNEY COMPANY, INC.                         | JCP            | Equity          |
| JD                | JD.COM, INC.                                       | JD             | Equity          |
| JDST              | DIREXION DAILY JR GLD MNRS BEAR 3X ETF             | JDST           | ETF             |
| JKS               | JINKOSOLAR HOLDING COMPANY LIMITED                 | JKS            | Equity          |
| JNJ               | JOHNSON & JOHNSON                                  | JNJ            | Equity          |
| JNK               | SPDR BARCLAYS HIGH YIELD BOND                      | JNK            | ETF             |
| JNPR              | JUNIPER NETWORKS, INC.                             | JNPR           | Equity          |
| JNUG              | DIREXION DAILY JR GLD MNRS BULL 3X ETF             | JNUG           | ETF             |
| JO                | IPATH DOW JONES-UBS COFFEE TOT RET SUB-INDEXSM ETN | JO             | Equity          |
| JPM               | JPMORGAN CHASE & COMPANY                           | JPM            | Equity          |
| JUNO              | JUNO THERAPEUTICS INC.                             | JUNO           | Equity          |
| JWN               | NORDSTROM INC.                                     | JWN            | Equity          |
| K                 | KELLOGG COMPANY                                    | K              | Equity          |

| Underlying Symbol | Underlying Name                           | Options Symbol | Instrument Type |
|-------------------|-------------------------------------------|----------------|-----------------|
| KANG              | IKANG HEALTHCARE GROUP, INC.              | KANG           | Equity          |
| KBE               | SPDR S&P BANK ETF                         | KBE            | ETF             |
| KBH               | KB HOME                                   | KBH            | Equity          |
| KBR               | KBR, INC.                                 | KBR            | Equity          |
| KCG               | KNIGHT CAPITAL GROUP, INC.                | KCG            | Equity          |
| KERX              | KERYX BIOPHARMACEUTICALS INC.             | KERX           | Equity          |
| KEY               | KEYCORP                                   | KEY            | Equity          |
| KGC               | KINROSS GOLD CORPORATION                  | KGC            | Equity          |
| KHC               | THE KRAFT HEINZ COMPANY                   | KHC            | Equity          |
| KITE              | KITE PHARMA, INC.                         | KITE           | Equity          |
| KKR               | KKR & CO. LP                              | KKR            | Equity          |
| KMB               | KIMBERLY-CLARK CORPORATION                | KMB            | Equity          |
| KMI               | KINDER MORGAN, INC.                       | KMI            | Equity          |
| KMX               | CARMAX INC.                               | KMX            | Equity          |
| KNDI              | KANDI TECHNOLOGIES CORPORATION            | KNDI           | Equity          |
| KO                | THE COCA-COLA COMPANY                     | KO             | Equity          |
| KORS              | MICHAEL KORS HOLDINGS LIMITED             | KORS           | Equity          |
| KR                | THE KROGER COMPANY                        | KR             | Equity          |
| KRE               | SPDR S&P REGIONAL BANKING ETF             | KRE            | ETF             |
| KSS               | KOHL'S CORPORATION                        | KSS            | Equity          |
| KSU               | KANSAS CITY SOUTHERN                      | KSU            | Equity          |
| KTOS              | KRATOS DEFENSE & SECURITY SOLUTIONS, INC. | KTOS           | Equity          |
| LABD              | DIREXION DAILY S&P BIOTECH BEAR 3X ETF    | LABD           | ETF             |
| LABU              | DIREXION DAILY S&P BIOTECH BULL 3X ETF    | LABU           | ETF             |
| LAZ               | LAZARD LTD.                               | LAZ            | Equity          |
| LB                | L BRANDS, INC.                            | LB             | Equity          |
| LBTYA             | LIBERTY GLOBAL INC                        | LBTYA          | Equity          |
| LC                | LENDINGCLUB CORPORATION                   | LC             | Equity          |
| LCI               | LANNETT COMPANY, INC.                     | LCI            | Equity          |
| LDOS              | LUMOS NETWORKS CORPORATION                | LDOS           | Equity          |
| LE                | LANDS' END, INC.                          | LE             | Equity          |
| LEN               | LENNAR CORPORATION                        | LEN            | Equity          |
| LFC               | CHINA LIFE INSURANCE CO., LTD.            | LFC            | Equity          |
| LITE              | LUMENTUM HOLDINGS INC.                    | LITE           | Equity          |
| LJPC              | LA JOLLA PHARMACEUTICAL COMPANY           | LJPC           | Equity          |
| LKQ               | LKQ CORPORATION                           | LKQ            | Equity          |
| LL                | LUMBER LIQUIDATORS HOLDINGS INC           | LL             | Equity          |
| LLY               | ELI LILLY AND COMPANY                     | LLY            | Equity          |
| LM                | LEGG MASON INC.                           | LM             | Equity          |
| LMT               | LOCKHEED MARTIN CORPORATION               | LMT            | Equity          |
| LNC               | LINCOLN NATIONAL CORPORATION              | LNC            | Equity          |
| LNG               | CHENIERE ENERGY, INC.                     | LNG            | Equity          |
| LOGI              | LOGITECH INTERNATIONAL S.A.               | LOGI           | Equity          |
| LOW               | LOWE'S COMPANIES INC.                     | LOW            | Equity          |
| LPX               | LOUISIANA-PACIFIC CORPORATION             | LPX            | Equity          |

| Underlying Symbol | Underlying Name                        | Options Symbol | Instrument Type |
|-------------------|----------------------------------------|----------------|-----------------|
| LQD               | ISHARES IBOX \$ INVST GRADE CRP BOND   | LQD            | ETF             |
| LRCX              | LAM RESEARCH CORPORATION               | LRCX           | Equity          |
| LULU              | LULULEMON ATHLETICA INC.               | LULU           | Equity          |
| LUV               | SOUTHWEST AIRLINES COMPANY             | LUV            | Equity          |
| LVLT              | LEVEL3 COMMUNICATIONS (REVERSE SPLIT)  | LVLT           | Equity          |
| LVS               | LAS VEGAS SANDS CORPORATION            | LVS            | Equity          |
| LXRX              | LEXICON PHARMACEUTICALS, INC.          | LXRX           | Equity          |
| LYB               | LYONDELLBASELL INDUSTRIES NV           | LYB            | Equity          |
| LYG               | LLOYDS BANKING GROUP PLC ADR           | LYG            | Equity          |
| M                 | MACY'S, INC.                           | M              | Equity          |
| MA                | MASTERCARD INCORPORATED                | MA             | Equity          |
| MACK              | MERRIMACK PHARMACEUTICALS INC          | MACK           | Equity          |
| MAN               | MANPOWERGROUP INC.                     | MAN            | Equity          |
| MAR               | MARRIOTT INTERNATIONAL, INC.           | MAR            | Equity          |
| MAS               | MASCO CORP.                            | MAS            | Equity          |
| MAT               | MATTEL, INC.                           | MAT            | Equity          |
| MBI               | MBIA INC.                              | MBI            | Equity          |
| MCD               | MCDONALD'S CORPORATION                 | MCD            | Equity          |
| MCHP              | MICROCHIP TECHNOLOGY INC               | MCHP           | Equity          |
| MCK               | MCKESSON CORPORATION                   | MCK            | Equity          |
| MCO               | MOODY'S CORPORATION                    | MCO            | Equity          |
| MDCO              | THE MEDICINES COMPANY                  | MDCO           | Equity          |
| MDLZ              | MONDELEZ INTERNATIONAL, INC.           | MDLZ           | Equity          |
| MDR               | MCDERMOTT INTRNATIONAL INC             | MDR            | Equity          |
| MDT               | MEDTRONIC, INC.                        | MDT            | Equity          |
| MDY               | SPDR S&P MIDCAP 400                    | MDY            | ETF             |
| MEET              | MEETME, INC.                           | MEET           | Equity          |
| MELI              | MERCADOLIBRE INC                       | MELI           | Equity          |
| MET               | METLIFE, INC.                          | MET            | Equity          |
| MFIN              | MEDALLION FINANCIAL CORPORATION        | MFIN           | Equity          |
| MGA               | MAGNA INTERNATIONAL INC.               | MGA            | Equity          |
| MGM               | MGM RESORTS INTERNATIONAL              | MGM            | Equity          |
| MIC               | MACQUARIE INFRASTRUCTURE COMPANY TRUST | MIC            | Equity          |
| MIDD              | THE MIDDLEBY CORPORATION               | MIDD           | Equity          |
| MLCO              | MELCO RESORTS & ENTERTAINMENT LIMITED  | MLCO           | Equity          |
| MLM               | MARTIN MARIETTA MATERIALS INC          | MLM            | Equity          |
| MLNX              | MELLANOX TECHNOLOGIES, LTD.            | MLNX           | Equity          |
| MMM               | 3M COMPANY                             | MMM            | Equity          |
| MMP               | MAGELLAN MIDSTREAM PARTNERS L.P        | MMP            | Equity          |
| MNK               | MALLINCKRODT PLC                       | MNK            | Equity          |
| MNKD              | MANNKIND CORPORATION                   | MNKD           | Equity          |
| MNST              | MONSTER BEVERAGE CORPORATION           | MNST           | Equity          |
| MO                | ALTRIA GROUP INC.                      | MO             | Equity          |
| MOMO              | MOMO INC.                              | MOMO           | Equity          |
| MON               | MONSANTO COMPANY                       | MON            | Equity          |

| Underlying Symbol | Underlying Name                     | Options Symbol | Instrument Type |
|-------------------|-------------------------------------|----------------|-----------------|
| MOS               | THE MOSAIC COMPANY                  | MOS            | Equity          |
| MPC               | MARATHON PETROLEUM CORPORATION      | MPC            | Equity          |
| MPLX              | MPLX LP                             | MPLX           | Equity          |
| MPW               | MEDICAL PROPERTIES TRUST INC        | MPW            | Equity          |
| MRK               | MERCK & COMPANY INC.                | MRK            | Equity          |
| MRO               | MARATHON OIL CORPORATION            | MRO            | Equity          |
| MRVL              | MARVELL TECHNOLOGY GROUP LTD.       | MRVL           | Equity          |
| MS                | MORGAN STANLEY                      | MS             | Equity          |
| MSCC              | MICROSEMI CORPORATION               | MSCC           | Equity          |
| MSFT              | MICROSOFT CORPORATION               | MSFT           | Equity          |
| MSI               | MOTOROLA INC (REVERSE SPLIT)        | MSI            | Equity          |
| MT                | ARCELORMITTAL                       | MT             | Equity          |
| MTB               | M & T BANK CORP                     | MTB            | Equity          |
| MTCH              | MATCH GROUP, INC.                   | MTCH           | Equity          |
| MTDR              | MATADOR RESOURCES COMPANY           | MTDR           | Equity          |
| MTG               | MGIC INVESTMENT CORPORATION         | MTG            | Equity          |
| MTOR              | MERITOR, INC.                       | MTOR           | Equity          |
| MTW               | THE MANITOWOC COMPANY, INC.         | MTW            | Equity          |
| MTZ               | MASTEC INC                          | MTZ            | Equity          |
| MU                | MICRON TECHNOLOGY INC.              | MU             | Equity          |
| MUR               | MURPHY OIL CORPORATION              | MUR            | Equity          |
| MUX               | MCEWEN MINING INC.                  | MUX            | Equity          |
| MXIM              | MAXIM INTEGRATED PROD. IN           | MXIM           | Equity          |
| MYGN              | MYRIAD GENETICS INC                 | MYGN           | Equity          |
| MYL               | MYLAN, INC.                         | MYL            | Equity          |
| NAT               | NORDIC AMERICAN TANKERS LTD         | NAT            | Equity          |
| NAV               | NAVISTAR INTERNATIONAL CORPORATION  | NAV            | Equity          |
| NAVI              | NAVIENT CORPORATION                 | NAVI           | Equity          |
| NBIX              | NEUROCRINE BIOSCIENCES              | NBIX           | Equity          |
| NBL               | NOBLE ENERGY INC                    | NBL            | Equity          |
| NBR               | NABORS INDUSTRIES LTD.              | NBR            | Equity          |
| NCLH              | NORWEGIAN CRUISE LINE HOLDINGS LTD. | NCLH           | Equity          |
| NDAQ              | NASDAQ OMX GROUP                    | NDAQ           | Equity          |
| NE                | NOBLE CORPORATION PLC               | NE             | Equity          |
| NEE               | NEXTERA ENERGY, INC.                | NEE            | Equity          |
| NEM               | NEWMONT MINING CORPORATION          | NEM            | Equity          |
| NFLX              | NETFLIX, INC.                       | NFLX           | Equity          |
| NFX               | NEWFIELD EXPLORATION COMPANY        | NFX            | Equity          |
| NG                | NOVAGOLD RESOURCES INC (DIST)       | NG             | Equity          |
| NGD               | NEW GOLD, INC.                      | NGD            | Equity          |
| NGL               | NGL ENERGY PARTNERS L.P.            | NGL            | Equity          |
| NKE               | NIKE INC.                           | NKE            | Equity          |
| NKTR              | NEKTAR THERAPEUTICS                 | NKTR           | Equity          |
| NLNK              | NEWLINK GENETICS CORP.              | NLNK           | Equity          |
| NLSN              | NIELSEN HOLDINGS NV                 | NLSN           | Equity          |

| Underlying Symbol | Underlying Name                             | Options Symbol | Instrument Type |
|-------------------|---------------------------------------------|----------------|-----------------|
| NLY               | ANNALY CAPITAL MANAGEMENT, INC.             | NLY            | Equity          |
| NOC               | NORTHROP GRUMMAN CORP                       | NOC            | Equity          |
| NOK               | NOKIA CORPORATION                           | NOK            | Equity          |
| NOV               | NATIONAL OILWELL VARCO, INC.                | NOV            | Equity          |
| NOW               | SERVICENOW INC.                             | NOW            | Equity          |
| NQ                | NQ MOBILE INC.                              | NQ             | Equity          |
| NRG               | NRG ENERGY, INC.                            | NRG            | Equity          |
| NRZ               | NEW RESIDENTIAL INVESTMENT CORP.            | NRZ            | Equity          |
| NSC               | NORFOLK SOUTHERN CORPORATION                | NSC            | Equity          |
| NTAP              | NETAPP, INC.                                | NTAP           | Equity          |
| NTES              | NETEASE, INC.                               | NTES           | Equity          |
| NUAN              | NUANCE COMMUNICATIONS, INC.                 | NUAN           | Equity          |
| NUE               | NUCOR CORPORATION                           | NUE            | Equity          |
| NUGT              | DIREXION DAILY GOLD MINERS BULL 3X SHRS     | NUGT           | ETF             |
| NUS               | NU SKIN ENTERPRISES INC.                    | NUS            | Equity          |
| NVAX              | NOVAVAX, INC                                | NVAX           | Equity          |
| NVDA              | NVIDIA CORPORATION                          | NVDA           | Equity          |
| NVO               | NOVO NORDISK                                | NVO            | Equity          |
| NVS               | ALCON INC (MERGER)                          | NVS            | Equity          |
| NWL               | NEWELL RUBBERMAID, INC.                     | NWL            | Equity          |
| NXST              | NEXSTAR BROADCASTING GROUP, INC.            | NXST           | Equity          |
| NYCB              | NEW YORK COMM. BANCORP                      | NYCB           | Equity          |
| NYMX              | NYMOX PHARMACEUTICAL CORPORATION            | NYMX           | Equity          |
| O                 | REALTY INCOME CORPORATION                   | O              | Equity          |
| OAS               | OASIS PETROLEUM INC.                        | OAS            | Equity          |
| OCLR              | OCLARO, INC.                                | OCLR           | Equity          |
| OCN               | OCWEN FINANCIAL CORPORATION                 | OCN            | Equity          |
| OCUL              | OCULAR THERAPEUTIX, INC.                    | OCUL           | Equity          |
| ODP               | OFFICE DEPOT, INC.                          | ODP            | Equity          |
| OHI               | OMEGA HEALTHCARE INVESTORS, INC.            | OHI            | Equity          |
| OIH               | MARKET VECTORS OIL SERVICES ETF             | OIH            | ETF             |
| OIL               | IPATH S&P GSCI CRUDE OIL TOT RTRN INDEX ETN | OIL            | ETF             |
| OKE               | ONEOK, INC.                                 | OKE            | Equity          |
| OKS               | ONEOK PARTNERS, L.P.                        | OKS            | Equity          |
| OLED              | CAMBRIDGE DISPLAY TECHNOLOGY INC.           | OLED           | Equity          |
| OLN               | OLIN CORP.                                  | OLN            | Equity          |
| OMF               | ONEMAIN HOLDINGS, INC.                      | OMF            | Equity          |
| ON                | ON SEMICONDUCTOR CORPORATION                | ON             | Equity          |
| ONVO              | ORGANOVO HOLDINGS, INC.                     | ONVO           | Equity          |
| OPHT              | OPHTHOTTECH CORPORATION                     | OPHT           | Equity          |
| OPK               | OPKO HEALTH, INC.                           | OPK            | Equity          |
| ORCL              | ORACLE CORPORATION                          | ORCL           | Equity          |
| OREX              | OREXIGEN THERAPEUTICS INC                   | OREX           | Equity          |
| ORIG              | OCEAN RIG UDW INC.                          | ORIG           | Equity          |
| ORLY              | O'REILLY AUTOMOTIVE INC.                    | ORLY           | Equity          |

| Underlying Symbol | Underlying Name                          | Options Symbol | Instrument Type |
|-------------------|------------------------------------------|----------------|-----------------|
| OUT               | OUTFRONT MEDIA INC.                      | OUT            | Equity          |
| OXY               | OCCIDENTAL PETROLEUM CORPORATION         | OXY            | Equity          |
| P                 | PANDORA MEDIA, INC.                      | P              | Equity          |
| PAA               | PLAINS ALL AMERICAN PIPELINE, LP         | PAA            | Equity          |
| PAAS              | PAN AMERICAN SILVER CORPORATION          | PAAS           | Equity          |
| PAGP              | PLAINS GP HOLDINGS, L.P.                 | PAGP           | Equity          |
| PAH               | PLATFORM SPECIALTY PRODUCTS CORPORATION  | PAH            | Equity          |
| PANW              | PALO ALTO NETWORKS INC                   | PANW           | Equity          |
| PAY               | VERIFONE SYSTEMS, INC.                   | PAY            | Equity          |
| PAYC              | PAYCOM SOFTWARE, INC.                    | PAYC           | Equity          |
| PAYX              | PAYCHEX, INC                             | PAYX           | Equity          |
| PBF               | PBF ENERGY INC.                          | PBF            | Equity          |
| PBI               | PITNEY BOWES INC.                        | PBI            | Equity          |
| PBR               | PETROLEO BRASILEIRO PETROBRAS SA         | PBR            | Equity          |
| PBYI              | PUMA BIOTECHNOLOGY, INC.                 | PBYI           | Equity          |
| PCAR              | PACCAR INC.                              | PCAR           | Equity          |
| PCLN              | PRICELINE.COM INCORPORATED               | PCLN           | Equity          |
| PCRX              | PACIRA PHARMACEUTICALS, INC./DE          | PCRX           | Equity          |
| PE                | PARSLEY ENERGY, INC.                     | PE             | Equity          |
| PENN              | PENN NATIONAL GAMING INC                 | PENN           | Equity          |
| PEP               | PEPSICO, INC.                            | PEP            | Equity          |
| PF                | PINNACLE FOODS, INC.                     | PF             | Equity          |
| PFE               | PFIZER INC.                              | PFE            | Equity          |
| PG                | PROCTER & GAMBLE COMPANY                 | PG             | Equity          |
| PGR               | PROGRESSIVE CORPORATION                  | PGR            | Equity          |
| PH                | PARKER-HANNIFIN CORP                     | PH             | Equity          |
| PHM               | PULTEGROUP, INC.                         | PHM            | Equity          |
| PII               | POLARIS INDUSTRIES, INC.                 | PII            | Equity          |
| PKG               | PACKAGING CORP OF AMERICA                | PKG            | Equity          |
| PLCE              | CHILDREN'S PLACE RETAIL                  | PLCE           | Equity          |
| PLD               | PROLOGIS INC.                            | PLD            | Equity          |
| PLUG              | PLUG POWER INC                           | PLUG           | Equity          |
| PM                | PHILIP MORRIS INTERNATIONAL, INC.        | PM             | Equity          |
| PNC               | PNC FINANCIAL SERVICES GROUP INC.        | PNC            | Equity          |
| PNRA              | PANERA BREAD COMPANY                     | PNRA           | Equity          |
| POST              | POST HOLDINGS, INC.                      | POST           | Equity          |
| POT               | POTASH CORPORATION OF SASKATCHEWAN, INC. | POT            | Equity          |
| PPG               | PPG INDUSTRIES INC.                      | PPG            | Equity          |
| PPL               | PPL CORPORATION                          | PPL            | Equity          |
| PRGO              | PERRIGO COMPANY                          | PRGO           | Equity          |
| PRU               | PRUDENTIAL FINANCIAL, INC.               | PRU            | Equity          |
| PRXL              | PAREXEL INTL                             | PRXL           | Equity          |
| PSA               | PUBLIC STORAGE                           | PSA            | Equity          |
| PSEC              | PROSPECT CAPITAL CORPORATION             | PSEC           | Equity          |
| PSTG              | PURE STORAGE, INC.                       | PSTG           | Equity          |

| Underlying Symbol | Underlying Name                        | Options Symbol | Instrument Type |
|-------------------|----------------------------------------|----------------|-----------------|
| PSX               | PHILLIPS 66                            | PSX            | Equity          |
| PTC               | PTC INC.                               | PTC            | Equity          |
| PTCT              | PTC THERAPEUTICS, INC.                 | PTCT           | Equity          |
| PTEN              | PATTERSON-UTI ENERGY INC.              | PTEN           | Equity          |
| PTLA              | PORTOLA PHARMACEUTICALS, INC.          | PTLA           | Equity          |
| PVG               | PRETIUM RESOURCES, INC.                | PVG            | Equity          |
| PVH               | PVH CORP.                              | PVH            | Equity          |
| PWE               | PENN WEST PETROLEUM LTD.               | PWE            | Equity          |
| PWR               | QUANTA SERVICES, INC.                  | PWR            | Equity          |
| PX                | PRAXAIR, INC                           | PX             | Equity          |
| PXD               | PIONEER NATURAL RESOURCES COMPANY      | PXD            | Equity          |
| PYPL              | PAYPAL HOLDINGS, INC.                  | PYPL           | Equity          |
| PZZA              | PAPA JOHN'S INTERNATIONAL, INC.        | PZZA           | Equity          |
| Q                 | QUINTILES TRANSNATIONAL HOLDINGS, INC. | Q              | Equity          |
| QCOM              | QUALCOMM INCORPORATED                  | QCOM           | Equity          |
| QEP               | QEP RESOURCES INC.                     | QEP            | Equity          |
| QID               | PROSHARES ULTRASHORT QQQ               | QID            | ETF             |
| QLD               | PROSHARES ULTRA QQQ                    | QLD            | ETF             |
| QQQ               | POWERSHARES QQQ                        | QQQ            | ETF             |
| QRVO              | QORVO, INC.                            | QRVO           | Equity          |
| RAD               | RITE AID CORPORATION                   | RAD            | Equity          |
| RAI               | REYNOLDS AMERICAN INC.                 | RAI            | Equity          |
| RBS               | ROYAL BANK OF SCOTLAND GROUP PLC       | RBS            | Equity          |
| RCII              | RENT-A_CENTER, INC.                    | RCII           | Equity          |
| RCL               | ROYAL CARIBBEAN CRUISES LTD.           | RCL            | Equity          |
| RDC               | ROWAN COMPANIES PLC                    | RDC            | Equity          |
| RDSA              | ROYAL DUTCH SHELL PLC                  | RDSA           | Equity          |
| RDSB              | ROYAL DUTCH SHELL PLC CL B             | RDSB           | Equity          |
| RDUS              | RADIUS HEALTH, INC.                    | RDUS           | Equity          |
| RDWR              | RADWARE LTD.                           | RDWR           | Equity          |
| REGN              | REGENERON PHARMACEUTICALS              | REGN           | Equity          |
| REN               | RESOLUTE ENERGY CORPORATION            | REN            | Equity          |
| RES               | RPC INC                                | RES            | Equity          |
| RESI              | ALTISOURCE RESIDENTIAL CORPORATION     | RESI           | Equity          |
| RF                | REGIONS FINANCIAL CORPORATION          | RF             | Equity          |
| RGLD              | ROYAL GOLD, INC.                       | RGLD           | Equity          |
| RGR               | STURM, RUGER & COMPANY INC.            | RGR            | Equity          |
| RH                | RESTORATION HARDWARE HOLDINGS, INC     | RH             | Equity          |
| RHT               | RED HAT, INC.                          | RHT            | Equity          |
| RICE              | RICE ENERGY INC.                       | RICE           | Equity          |
| RIG               | TRANSOCEAN LTD.                        | RIG            | Equity          |
| RIO               | RIO TINTO PLC                          | RIO            | Equity          |
| RL                | RALPH LAUREN CORPORATION               | RL             | Equity          |
| RMBS              | RAMBUS INC                             | RMBS           | Equity          |
| ROK               | ROCKWELL AUTOMATION                    | ROK            | Equity          |

| Underlying Symbol | Underlying Name                      | Options Symbol | Instrument Type |
|-------------------|--------------------------------------|----------------|-----------------|
| ROST              | ROSS STORES INC.                     | ROST           | Equity          |
| RRC               | RANGE RESOURCES CORPORATION          | RRC            | Equity          |
| RSPP              | RSP PERMIAN, INC.                    | RSPP           | Equity          |
| RSX               | MARKET VECTORS RUSSIA ETF            | RSX            | ETF             |
| RTN               | RAYTHEON COMPANY                     | RTN            | Equity          |
| RTRX              | RETROPHIN, INC.                      | RTRX           | Equity          |
| RY                | ROYAL BANK OF CANADA                 | RY             | Equity          |
| S                 | SPRINT CORPORATION                   | S              | Equity          |
| SA                | SEABRIDGE GOLD INC                   | SA             | Equity          |
| SAGE              | SAGE THERAPEUTICS, INC.              | SAGE           | Equity          |
| SAND              | SANDSTORM GOLD LTD.                  | SAND           | Equity          |
| SAVE              | SPIRIT AIRLINES, INC.                | SAVE           | Equity          |
| SBAC              | SBA COMMUNICATION CORP               | SBAC           | Equity          |
| SBGI              | SINCLAIR BROADCASTING GRP            | SBGI           | Equity          |
| SBGL              | SIBANYE GOLD LIMITED                 | SBGL           | Equity          |
| SBUX              | STARBUCKS CORPORATION                | SBUX           | Equity          |
| SC                | SANTANDER CONSUMER USA HOLDINGS INC. | SC             | Equity          |
| SCCO              | SOUTHERN COPPER CORPORATION          | SCCO           | Equity          |
| SCHW              | THE CHARLES SCHWAB CORPORATION       | SCHW           | Equity          |
| SCO               | PROSHARE ULTRASHORT DJ UBS CRUDE OIL | SCO            | ETF             |
| SCSS              | SELECT COMFORT CORPORATION           | SCSS           | Equity          |
| SDRL              | SEADRILL LIMITED                     | SDRL           | Equity          |
| SDS               | PROSHARES ULTRASHORT S&P500          | SDS            | ETF             |
| SEAS              | SEAWORLD ENTERTAINMENT, INC.         | SEAS           | Equity          |
| SEDG              | SOLAREEDGE TECHNOLOGIES, INC.        | SEDG           | Equity          |
| SEE               | SEALED AIR CORP                      | SEE            | Equity          |
| SEMG              | SEMGROUP CORPORATION                 | SEMG           | Equity          |
| SERV              | SERVICEMASTER GLOBAL HOLDINGS, INC.  | SERV           | Equity          |
| SFL               | SHIP FINANCE INTERNATIONAL LIMITED   | SFL            | Equity          |
| SFLY              | SHUTTERFLY INC                       | SFLY           | Equity          |
| SFM               | SPROUTS FARMERS MARKET, INC.         | SFM            | Equity          |
| SGMS              | SCIENTIFIC GAMES CORPORATION         | SGMS           | Equity          |
| SGYP              | SYNERGY PHARMACEUTICALS, INC.        | SGYP           | Equity          |
| SH                | PROSHARES SHORT S&P 500              | SH             | Equity          |
| SHAK              | SHAKE SHACK INC.                     | SHAK           | Equity          |
| SHLD              | SEARS HOLDINGS CORPORATION           | SHLD           | Equity          |
| SHOP              | SHOPIFY INC.                         | SHOP           | Equity          |
| SHPG              | SHIRE PLC ADS                        | SHPG           | Equity          |
| SHW               | THE SHERWIN-WILLIAMS COMPANY         | SHW            | Equity          |
| SIG               | SIGNET JEWELERS LIMITEDSHS           | SIG            | Equity          |
| SINA              | SINA CORPORATION                     | SINA           | Equity          |
| SIRI              | SIRIUS XM RADIO INC.                 | SIRI           | Equity          |
| SJM               | J M SMUCKER COMPANY (THE)            | SJM            | Equity          |
| SKX               | SKETCHERS USA INCORPORATED           | SKX            | Equity          |
| SLB               | SCHLUMBERGER LIMITED                 | SLB            | Equity          |

| Underlying Symbol | Underlying Name                                    | Options Symbol | Instrument Type |
|-------------------|----------------------------------------------------|----------------|-----------------|
| SLCA              | US SILICA HOLDINGS INC.                            | SLCA           | Equity          |
| SLV               | ISHARES SILVER TRUST                               | SLV            | ETF             |
| SM                | SM ENERGY COMPANY                                  | SM             | Equity          |
| SMG               | THE SCOTTS MIRACLE-GRO COMPANY                     | SMG            | Equity          |
| SMH               | MARKET VECTORS SEMICONDUCTOR ETF                   | SMH            | ETF             |
| SMLP              | SUMMIT MIDSTREAM PARTNERS                          | SMLP           | Equity          |
| SN                | SANCHEZ ENERGY CORP.                               | SN             | Equity          |
| SNAP              | SNAP, INC                                          | SNAP           | Equity          |
| SNE               | SONY CORPORATION                                   | SNE            | Equity          |
| SNI               | SCRIPPS NETWORKS INTERACTIVE                       | SNI            | Equity          |
| SNY               | SANOFI                                             | SNY            | Equity          |
| SO                | SOUTHERN COMPANY                                   | SO             | Equity          |
| SODA              | SODASTREAM INTERNATIONAL LTD.                      | SODA           | Equity          |
| SONC              | SONIC CORPORATION                                  | SONC           | Equity          |
| SPG               | SIMON PROPERTY GROUP INC.                          | SPG            | Equity          |
| SPLK              | SPLUNK, INC.                                       | SPLK           | Equity          |
| SPLS              | STAPLES, INC.                                      | SPLS           | Equity          |
| SPN               | SUPERIOR ENERGY SERVICES, INC                      | SPN            | Equity          |
| SPWR              | SUNPOWER CORPORATION                               | SPWR           | Equity          |
| SPXL              | DIREXION DAILY S&P 500 BULL 3X SHARES              | SPXL           | ETF             |
| SPXS              | DIREXION DAILY S&P 500 BEAR 3X SHARES (1:5 REVERSE | SPXS           | ETF             |
| SPXU              | PROSHARES ULTRAPRO SHORT S&P500                    | SPXU           | ETF             |
| SPY               | SPDR S&P 500 TRUST                                 | SPY            | ETF             |
| SQ                | SQUARE, INC.                                       | SQ             | Equity          |
| SQQQ              | PROSHARES ULTRAPRO SHORT QQQ                       | SQQQ           | ETF             |
| SRCL              | STERICYCLE, INC.                                   | SRCL           | Equity          |
| SRPT              | SAREPTA THERAPEUTICS, INC.                         | SRPT           | Equity          |
| SSO               | PROSHARES ULTRA S&P500                             | SSO            | ETF             |
| SSRI              | SILVER STANDARD RESOURCES INC.                     | SSRI           | Equity          |
| SSW               | SEASPAN CORPORATION                                | SSW            | Equity          |
| SSYS              | STRATASYS INC.                                     | SSYS           | Equity          |
| STI               | SUNTRUST BANKS, INC.                               | STI            | Equity          |
| STLD              | STEEL DYNAMICS INC                                 | STLD           | Equity          |
| STM               | STMICROELECTRONICS NV                              | STM            | Equity          |
| STMP              | STAMPS.COM, INC                                    | STMP           | Equity          |
| STNG              | SCORPIO TANKERS, INC.                              | STNG           | Equity          |
| STT               | STATE STREET CORPORATION                           | STT            | Equity          |
| STWD              | STARWOOD PROPERTY TRUST, INC.                      | STWD           | Equity          |
| STX               | SEAGATE TECHNOLOGY PUBLIC LIMITED COMPANY          | STX            | Equity          |
| STZ               | CONSTELLATION BRANDS INC.                          | STZ            | Equity          |
| SU                | SUNCOR ENERGY INC.                                 | SU             | Equity          |
| SUN               | SUNOCO L.P.                                        | SUN            | Equity          |
| SVU               | SUPERVALU INC.                                     | SVU            | Equity          |
| SVXY              | PROSHARES SHORT VIX SHORT-TERM FUTURES             | SVXY           | Equity          |
| SWFT              | SWIFT TRANSPORTATION COMPANY                       | SWFT           | Equity          |

| Underlying Symbol | Underlying Name                                | Options Symbol | Instrument Type |
|-------------------|------------------------------------------------|----------------|-----------------|
| SWIR              | SIERRA WIRELESS, INC                           | SWIR           | Equity          |
| SWKS              | SKYWORKS SOLUTIONS INC.                        | SWKS           | Equity          |
| SWN               | SOUTHWESTERN ENERGY COMPANY                    | SWN            | Equity          |
| SYF               | SYNCHRONY FINANCIAL                            | SYF            | Equity          |
| SYK               | STRYKER CORP                                   | SYK            | Equity          |
| SYMC              | SYMANTEC CORPORATION                           | SYMC           | Equity          |
| SYNA              | SYNAPTICS, INC.                                | SYNA           | Equity          |
| SYT               | SYNGENTA AG                                    | SYT            | Equity          |
| SYU               | SYSCO CORPORATION                              | SYU            | Equity          |
| T                 | AT&T, INC.                                     | T              | Equity          |
| TAHO              | TAHOE RESOURCES INC.                           | TAHO           | Equity          |
| TAP               | MOLSON COORS BREWING CO.                       | TAP            | Equity          |
| TBT               | PROSHARES ULTRASHORT 20+ YEAR TREASURY         | TBT            | ETF             |
| TD                | TORONTO DOMINION BANK                          | TD             | Equity          |
| TDC               | TERADATA CORP.                                 | TDC            | Equity          |
| TDG               | TRANSDIGM GROUP, INC.                          | TDG            | Equity          |
| TDW               | TIDEWATER INC.                                 | TDW            | Equity          |
| TECK              | TECK RESOURCES LIMITED                         | TECK           | Equity          |
| TER               | TERADYNE, INC                                  | TER            | Equity          |
| TERP              | TERRAFORM POWER, INC.                          | TERP           | Equity          |
| TEVA              | TEVA PHARMACEUTICAL INDUSTRIES LIMITED         | TEVA           | Equity          |
| TEX               | TEREX CORPORATION                              | TEX            | Equity          |
| TGP               | TEEKAY LNG PARTNERS LP                         | TGP            | Equity          |
| TGT               | TARGET CORPORATION                             | TGT            | Equity          |
| TGTX              | TG THERAPEUTICS, INC.                          | TGTX           | Equity          |
| THC               | TENET HEALTHCARE CORP (25 SHRS)                | THC            | Equity          |
| THO               | THOR INDUSTRIES INC                            | THO            | Equity          |
| TIF               | TIFFANY & COMPANY                              | TIF            | Equity          |
| TIME              | TIME INC.                                      | TIME           | Equity          |
| TJX               | THE TJX COMPANIES, INC.                        | TJX            | Equity          |
| TK                | TEEKAY CORP                                    | TK             | Equity          |
| TLRD              | TAILORED BRANDS, INC.                          | TLRD           | Equity          |
| TLT               | ISHARES BARCLAYS 20+ YEAR TREAS BOND           | TLT            | ETF             |
| TMO               | THERMO FISHER SCIENTIFIC INC.                  | TMO            | Equity          |
| TMUS              | T-MOBILE US, INC.                              | TMUS           | Equity          |
| TMV               | DIREXION DAILY 20 YEAR TREASURY BEAR 3X SHARES | TMV            | ETF             |
| TNA               | DIREXION DAILY SMALL CAP BULL 3X SHARES        | TNA            | ETF             |
| TOL               | TOLL BROTHERS INC.                             | TOL            | Equity          |
| TOT               | TOTAL SA                                       | TOT            | Equity          |
| TPX               | TEMPUR-PEDIC INTERNATIONAL INC.                | TPX            | Equity          |
| TQQQ              | PROSHARES ULTRA PRO QQQ                        | TQQQ           | ETF             |
| TRCO              | TRIBUNE MEDIA COMPANY                          | TRCO           | Equity          |
| TRGP              | TARGA RESOURCES CORP.                          | TRGP           | Equity          |
| TRIP              | TRIPADVISOR INC.                               | TRIP           | Equity          |
| TRN               | TRINITY INDUSTRIES INC.                        | TRN            | Equity          |

| Underlying Symbol | Underlying Name                         | Options Symbol | Instrument Type |
|-------------------|-----------------------------------------|----------------|-----------------|
| TROW              | T. ROWE PRICE GROUP INC.                | TROW           | Equity          |
| TROX              | TRONOX LTD.                             | TROX           | Equity          |
| TRP               | TRANSCANADA CORP.                       | TRP            | Equity          |
| TRUE              | TRUECAR, INC.                           | TRUE           | Equity          |
| TRV               | THE TRAVELERS COMPANIES, INC.           | TRV            | Equity          |
| TRVN              | TREVENA, INC.                           | TRVN           | Equity          |
| TSCO              | TRACTOR SUPPLY COMPANY                  | TSCO           | Equity          |
| TSEM              | TOWER SEMICONDUCTOR LTD.                | TSEM           | Equity          |
| TSLA              | TESLA MOTORS, INC.                      | TSLA           | Equity          |
| TSM               | TAIWAN SEMICONDUCTOR MFG. CO.           | TSM            | Equity          |
| TSN               | TYSON FOODS, INC.                       | TSN            | Equity          |
| TSO               | TESORO CORPORATION                      | TSO            | Equity          |
| TSRO              | TESARO, INC.                            | TSRO           | Equity          |
| TTM               | TATA MOTORS LTD.                        | TTM            | Equity          |
| TTS               | TILE SHOP HOLDINGS, INC.                | TTS            | Equity          |
| TTWO              | TAKE-TWO INTERACTIVE                    | TTWO           | Equity          |
| TUP               | TUPPERWARE BRANDS CORP                  | TUP            | Equity          |
| TUR               | ISHARES MSCI TURKEY                     | TUR            | ETF             |
| TV                | GRUPO TELEVISIA, S.A.B.                 | TV             | Equity          |
| TWLO              | TWILIO, INC.                            | TWLO           | Equity          |
| TWTR              | TWITTER INC.                            | TWTR           | Equity          |
| TWX               | TIME WARNER INC.                        | TWX            | Equity          |
| TXMD              | THERAPEUTICSMID, INC                    | TXMD           | Equity          |
| TXN               | TEXAS INSTRUMENTS INC.                  | TXN            | Equity          |
| TXT               | TEXTRON INC.                            | TXT            | Equity          |
| TZA               | DIREXION DAILY SMALL CAP BEAR 3X SHARES | TZA            | ETF             |
| UA                | UNDER ARMOUR, INC.                      | UA             | Equity          |
| UAA               | UNDER ARMOUR, INC.                      | UAA            | Equity          |
| UAL               | UNITED CONTINENTAL HOLDINGS, INC.       | UAL            | Equity          |
| UBNT              | UBIQUITI NETWORKS INC.                  | UBNT           | Equity          |
| UCO               | PROSHARES ULTRA DJ-UBS CRUDE OIL        | UCO            | ETF             |
| UEC               | URANIUM ENERGY CORP                     | UEC            | Equity          |
| UL                | UNILEVER PLC                            | UL             | Equity          |
| ULTA              | ULTA SALON COSMETICS & FRAGRANCE INC    | ULTA           | Equity          |
| UN                | UNILEVER NV                             | UN             | Equity          |
| UNG               | UNITED STATES NATURAL GAS               | UNG            | ETF             |
| UNH               | UNITEDHEALTH GROUP INCORPORATED         | UNH            | Equity          |
| UNP               | UNION PACIFIC CORPORATION               | UNP            | Equity          |
| UNXL              | UNI-PIXEL, INC.                         | UNXL           | Equity          |
| UPRO              | PROSHARES ULTRAPRO S&P 500              | UPRO           | ETF             |
| UPS               | UNITED PARCEL SERVICE, INC.             | UPS            | Equity          |
| URA               | GLOBAL X URANIUM ETF                    | URA            | ETF             |
| URBN              | URBAN OUTFITTERS INC                    | URBN           | Equity          |
| URI               | UNITED RENTALS, INC.                    | URI            | Equity          |
| USB               | U.S. BANCORP                            | USB            | Equity          |

| Underlying Symbol | Underlying Name                             | Options Symbol | Instrument Type |
|-------------------|---------------------------------------------|----------------|-----------------|
| USCR              | U.S. CONCRETE, INC.                         | USCR           | Equity          |
| USG               | USG CORPORATION                             | USG            | Equity          |
| USO               | UNITED STATES OIL FUND                      | USO            | ETF             |
| UTX               | UNITED TECHNOLOGIES CORPORATION             | UTX            | Equity          |
| UUP               | POWERSHARES DB US DOLLAR INDEX BULLISH      | UUP            | ETF             |
| UVV               | UNIVERSAL CORPORATION                       | UVV            | Equity          |
| UVXY              | PROSHARES ULTRA VIX SHORT-TERM FUT ETF      | UVXY           | ETF             |
| V                 | VISA INC.                                   | V              | Equity          |
| VAL               | VALSPAR CORPORATION (THE)                   | VAL            | Equity          |
| VALE              | VALE S.A.                                   | VALE           | Equity          |
| VEEV              | VEEVA SYSTEMS INC.                          | VEEV           | Equity          |
| VEON              | VEON LTD.                                   | VEON           | Equity          |
| VFC               | VF CORPORATION                              | VFC            | Equity          |
| VGK               | VANGUARD FTSE EUROPE ETF                    | VGK            | ETF             |
| VHC               | VIRNETX HOLDING CORP                        | VHC            | Equity          |
| VIAB              | VIACOM, INC.                                | VIAB           | Equity          |
| VIAV              | VIAVI SOLUTIONS INC.                        | VIAV           | Equity          |
| VIPS              | VIPSHOP HOLDINGS LIMITED                    | VIPS           | Equity          |
| VIXY              | PROSHARES VIX SHORT-TERM FUTURES ETF        | VIXY           | ETF             |
| VLO               | VALERO ENERGY CORPORATION                   | VLO            | Equity          |
| VMC               | VULCAN MATERIALS COMPANY                    | VMC            | Equity          |
| VMW               | VMWARE, INC.                                | VMW            | Equity          |
| VNQ               | VANGUARD REIT ETF                           | VNQ            | ETF             |
| VOD               | VODAFONE GROUP PUBLIC LIMITED COMPANY       | VOD            | Equity          |
| VRSN              | VERISIGN, INC.                              | VRSN           | Equity          |
| VRTX              | VERTEX PHARMACEUTICALS INCORPORATED         | VRTX           | Equity          |
| VRX               | VALEANT PHARMACEUTICALS INTERNATIONAL, INC. | VRX            | Equity          |
| VSTO              | VISTA OUTDOOR INC.                          | VSTO           | Equity          |
| VTR               | VENTAS, INC.                                | VTR            | Equity          |
| VUZI              | VUZIX CORPORATION                           | VUZI           | Equity          |
| VXX               | IPATH S&P 500 VIX ST FUTURES ETN            | VXX            | ETF             |
| VZ                | VERIZON COMMUNICATIONS INC.                 | VZ             | Equity          |
| W                 | WAYFAIR INC.                                | W              | Equity          |
| WATT              | ENERGOUS CORPORATION                        | WATT           | Equity          |
| WB                | WEIBO CORP. (ADR)                           | WB             | Equity          |
| WBA               | WALGREENS BOOTS ALLIANCE, INC.,             | WBA            | Equity          |
| WBMD              | WEBMD HEALTH CORP.                          | WBMD           | Equity          |
| WDAY              | WORKDAY, INC.                               | WDAY           | Equity          |
| WDC               | WESTERN DIGITAL CORPORATION                 | WDC            | Equity          |
| WDR               | WADDELL & REED FINANCIAL                    | WDR            | Equity          |
| WEN               | THE WENDY'S COMPANY                         | WEN            | Equity          |
| WETF              | WISDOMTREE INVESTMENTS, INC                 | WETF           | Equity          |
| WFC               | WELLS FARGO & COMPANY                       | WFC            | Equity          |
| WFM               | WHOLE FOODS MARKET, INC.                    | WFM            | Equity          |
| WFT               | WEATHERFORD INTERNATIONAL LTD.              | WFT            | Equity          |

| Underlying Symbol | Underlying Name                       | Options Symbol | Instrument Type |
|-------------------|---------------------------------------|----------------|-----------------|
| WHR               | WHIRLPOOL CORPORATION                 | WHR            | Equity          |
| WIN               | WINDSTREAM CORPORATION                | WIN            | Equity          |
| WLK               | WESTLAKE CHEMICAL CORP                | WLK            | Equity          |
| WLL               | WHITING PETROLEUM CORPORATION         | WLL            | Equity          |
| WM                | WASTE MANAGEMENT, INC.                | WM             | Equity          |
| WMB               | WILLIAMS COMPANIES, INC.              | WMB            | Equity          |
| WMT               | WAL-MART STORES INC.                  | WMT            | Equity          |
| WPM               | WHEATON PRECIOUS METALS CORPORATION   | WPM            | Equity          |
| WPX               | WPX ENERGY INC.                       | WPX            | Equity          |
| WPZ               | WILLIAMS PARTNERS LP                  | WPZ            | Equity          |
| WRK               | WESTROCK COMPANY                      | WRK            | Equity          |
| WSM               | WILLIAMS-SONOMA INC                   | WSM            | Equity          |
| WTW               | WEIGHT WATCHERS INTL., INC.           | WTW            | Equity          |
| WU                | THE WESTERN UNION COMPANY             | WU             | Equity          |
| WUBA              | 58.COM INC.                           | WUBA           | Equity          |
| WY                | WEYERHAEUSER COMPANY                  | WY             | Equity          |
| WYN               | WYNDHAM WORLDWIDE CORP                | WYN            | Equity          |
| WYNN              | WYNN RESORTS LTD.                     | WYNN           | Equity          |
| X                 | UNITED STATES STEEL CORPORATION       | X              | Equity          |
| XBI               | SPDR S&P BIOTECH ETF                  | XBI            | ETF             |
| XHB               | SPDR S&P HOMEBUILDERS                 | XHB            | ETF             |
| XLB               | MATERIALS SELECT SECTOR SPDR          | XLB            | ETF             |
| XLE               | ENERGY SELECT SECTOR SPDR             | XLE            | ETF             |
| XLF               | FINANCIAL SELECT SECTOR SPDR          | XLF            | ETF             |
| XLI               | INDUSTRIAL SELECT SECTOR SPDR         | XLI            | ETF             |
| XLK               | TECHNOLOGY SELECT SECTOR SPDR         | XLK            | ETF             |
| XLNX              | XILINX INC.                           | XLNX           | Equity          |
| XLP               | CONSUMER STAPLES SELECT SECTOR SPDR   | XLP            | ETF             |
| XLRE              | REAL ESTATE SELECT SECTOR SPDR        | XLRE           | Equity          |
| XLU               | UTILITIES SELECT SECTOR SPDR          | XLU            | ETF             |
| XLV               | HEALTH CARE SELECT SECTOR SPDR        | XLV            | ETF             |
| XLY               | CONSUMER DISCRETIONARY SELECT SPDR    | XLY            | ETF             |
| XME               | SPDR S&P METALS & MINING              | XME            | ETF             |
| XOM               | EXXON MOBIL CORPORATION               | XOM            | Equity          |
| XON               | INTREXON CORPORATION                  | XON            | Equity          |
| XOP               | SPDR S&P OIL & GAS EXPLORATION & PROD | XOP            | ETF             |
| XPO               | XPO LOGISTICS, INC.                   | XPO            | Equity          |
| XRT               | SPDR S&P RETAIL                       | XRT            | ETF             |
| XRX               | XEROX CORPORATION                     | XRX            | Equity          |
| YELP              | YELP, INC.                            | YELP           | Equity          |
| YHOO              | YAHOO! INC.                           | YHOO           | Equity          |
| YNDX              | YANDEX NV                             | YNDX           | Equity          |
| YPF               | YPF S.A.                              | YPF            | Equity          |
| YRCW              | YRC WORLDWIDE INC (REVERSE SPLIT)     | YRCW           | Equity          |
| YUM               | YUM! BRANDS, INC.                     | YUM            | Equity          |

| <b>Underlying Symbol</b> | <b>Underlying Name</b>    | <b>Options Symbol</b> | <b>Instrument Type</b> |
|--------------------------|---------------------------|-----------------------|------------------------|
| YY                       | YY INC.                   | YY                    | Equity                 |
| Z                        | ZILLOW GROUP, INC.        | Z                     | Equity                 |
| ZAYO                     | ZAYO GROUP HOLDINGS, INC. | ZAYO                  | Equity                 |
| ZEN                      | ZENDESK, INC.             | ZEN                   | Equity                 |
| ZION                     | ZIONS BANCORP             | ZION                  | Equity                 |
| ZIOP                     | ZIOPHARM ONCOLOGY, INC.   | ZIOP                  | Equity                 |
| ZNGA                     | ZYNGA, INC.               | ZNGA                  | Equity                 |
| ZTS                      | ZOETIS INC.               | ZTS                   | Equity                 |