SR-Phlx-2018-41 Page 15 of 22

**EXHIBIT 5** 

New text is underlined; deleted text is in brackets.

#### Nasdaq PHLX Rules

\* \* \* \* \*

## Rule 1095. Reserved[Automated Removal of Quotes

- (i) A specialist, Streaming Quote Trader or Remote Streaming Quote Trader (collectively "Market Maker") may provide a specified time period and a specified percentage (as these terms are defined below) by which the Exchange's Phlx XL system ("System") will automatically remove a Market Maker's quotes in all series of an underlying security submitted through designated Phlx protocols, as specified by the Exchange, during a specified time period established by the Market Maker not to exceed 15 seconds ("Percentage-Based Specified Time Period"). For each series in an option, the System will determine: (i) the percentage that the number of contracts executed in that series represents relative to the disseminated size, the original size quoted by the Market Maker, of each side in that series ("Series Percentage"); and (ii) the sum of the Series Percentage in the option issue ("Issue Percentage"). The System tracks and calculates the net impact of positions in the same option issue; long call percentages are offset by short call percentages, and long put percentages are offset by short put percentages in the Issue Percentage. If the Issue Percentage, rounded to the nearest integer, equals or exceeds a percentage established by a Market Maker, not less than 1% ("Specified Percentage"), the System will automatically remove a Market Maker's quotes in all series of the underlying security submitted through designated Phlx protocols, as specified by the Exchange, during the Percentage-Based Specified Time Period ("Percentage-Based Threshold"). A Percentage-Based Specified Time Period will commence for an option every time an execution occurs in any series in such option and will continue until the System removes quotes as described in (iv) or (v) or the Percentage-Based Specified Time Period expires. A Percentage -Based Specified Time Period operates on a rolling basis among all series in an option in that there may be multiple Percentage-Based Specified Time Periods occurring simultaneously and such Percentage-Based Specified Time periods may overlap.
- (ii) A specialist, Streaming Quote Trader or Remote Streaming Quote Trader (collectively "Market Maker") may provide a specified time period and a volume threshold by which the Exchange's Phlx XL system ("System") will automatically remove a Market Maker's quotes in all series of an underlying security submitted through designated Phlx protocols, as specified by the Exchange, during a specified time period established by the Market Maker not to exceed 15 seconds ("Volume-Based Specified Time Period") when the Market Maker executes a number of contracts which equals or exceeds the designated number of contracts in all options series in an underlying security ("Volume-Based Threshold"). The Market Maker's Volume-Based Specified Time Period must be the same length of time as designated for purposes of the Percentage-Based Threshold. A Volume-Based Specified Time Period will commence for an option every

SR-Phlx-2018-41 Page 16 of 22

time an execution occurs in any series in such option and will continue until the System removes quotes as described in (iv) or (v) or the Volume-Based Specified Time Period expires. A Volume-Based Specified Time Period operates on a rolling basis among all series in an option in that there may be multiple Volume-Based Specified Time Periods occurring simultaneously and such Volume-Based Specified Time periods may overlap.

- (iii) A Market Maker or Market Maker Group (multiple affiliated Market Makers is a "Group" as defined by a Phlx member and provided by such member to the Exchange) may provide a Specified Time Period and number of allowable triggers by which the Exchange will automatically remove quotes in all options series in all underlying issues submitted through designated Phlx protocols, as specified by the Exchange ("Multi-Trigger Threshold"). During a specified time period(s) established by the Market Maker not to exceed 15 seconds ("Multi-Trigger Specified Time Period"), the number of times the System automatically removes the Market Maker's or Group's quotes in all options series will be based on the number of triggers of the Percentage-Based Threshold, described in (i) above, as well as the Volume-Based Threshold described in (ii) above. Once the System determines that the number of triggers equals or exceeds a number established by either the Market Maker or Group, during a Multi-Trigger Specified Time Period, the System will automatically remove all quotes in all options series in all underlying issues for that Market Maker or Group. A trigger is defined as the event which causes the System to automatically remove in all options series in an underlying issue. A Multi- Trigger Specified Time Period will commence after every trigger of either the Percentage-Based Threshold or the Volume-Based Threshold and will continue until the System removes quotes as described in (iv) or the Multi-Trigger Specified Time Period expires. The System counts triggers within the Multi-Trigger Specified Time Period across all triggers for the Market Maker or Group. A Multi-Trigger Specified Time Period operates on a rolling basis in that there may be multiple Multi-Trigger Specified Time Periods occurring simultaneously and such Multi-Trigger Specified Time Periods may overlap.
- (iv) The System will automatically remove quotes in all options in an underlying security when the Percentage-Based Threshold or Volume-Based Threshold has been reached. The System will automatically remove quotes in all options in all underlying securities when the Multi-Trigger Threshold has been reached. The System will send a Purge Notification Message to the Market Maker for all affected options when the above thresholds have been reached.
  - (a) The Percentage-Based Threshold or Volume-Based Threshold and Multi-Trigger Threshold, are considered independently of each other.
  - (b) Quotes will be automatically executed up to the Market Maker's size regardless of whether the execution exceeds the Percentage-Based Threshold or Volume-Based Threshold.
- (v) If a Market Maker requests the System to remove quotes in all options series in an underlying issue, the System will automatically reset the Percentage-Based Specified

SR-Phlx-2018-41 Page 17 of 22

Time Period(s) or Volume-Based Specified Time Period(s). The Multi-Trigger Specified Time Period(s) will not automatically reset for the Multi-Trigger Threshold.

- (vi) When the System removes quotes as a result of the Percentage-Based Threshold or Volume- Based Threshold, the Market Maker must send a re-entry indicator to re-enter the System. When the System removes quotes as a result of the Multi-Trigger Threshold, the System will not accept quotes through designated protocols until the Market Maker manually requests re-entry. After quotes are removed as a result of the Multi-Trigger Threshold, Exchange staff must set a re-entry indicator in this case to enable re-entry, which will cause the System to send a Reentry Notification Message to the Market Maker for all options series in all underlying issues. The Market Maker's Clearing Firm will be notified regarding the trigger and re-entry into the System after quotes are removed as a result of the Multi-Trigger Threshold, provided the Market Maker's Clearing Firm has requested to receive such notification.
- (vii) The Exchange will require Market Makers to utilize either the Percentage-Based Threshold or the Volume-Based Threshold. The Multi-Trigger Threshold is optional.]

\* \* \* \* \*

#### Rule 1099. [Order]Risk Protections

The following order protections apply to simple orders.

- (a) The following are order protections on Phlx:
- (1) **Order Price Protection** ("OPP"). OPP is a feature of the System that prevents certain day limit, good til cancelled, immediate or cancel, and all-or-none orders at prices outside of pre-set standard limits from being accepted by the System. OPP applies to all options but does not apply to market orders, stop limit orders, Intermarket Sweep Orders or complex orders.
  - (A) OPP is operational each trading day after the opening until the close of trading, except during trading halts.
  - (B) OPP will reject incoming orders that exceed certain parameters according to the following algorithm.
    - (i) If the better of the NBBO or the internal market BBO (the "Reference BBO") on the contra-side of an incoming order is greater than \$1.00, orders with a limit more than 50% through such contra-side Reference BBO will be rejected by the System upon receipt. For example, if the Reference BBO on the offer side is \$1.10, an order to buy options for more than \$1.65 would be rejected. Similarly, if the Reference BBO on the bid side is \$1.10, an order to sell options for less than \$0.55 will be rejected.

SR-Phlx-2018-41 Page 18 of 22

(ii) If the Reference BBO on the contra-side of an incoming order is less than or equal to \$1.00, orders with a limit more than 100% through such contra-side Reference BBO will be rejected by the System upon receipt. For example, if the Reference BBO on the offer side is \$1.00, an order to buy options for more than \$2.00 would be rejected. However, if the Reference BBO of the bid side of an incoming order to sell is less than or equal to \$1.00, the OPP limits set forth above will result in all incoming sell orders being accepted regardless of their limit. To illustrate, if the Reference BBO on the bid side is equal to \$1.00, the OPP limits provide protection such that all orders to sell with a limit less than \$0.00 would be rejected.

- (C) For purposes of this rule, the NBBO is defined as the PBBO for singly-listed issues.
- (2) Market Order Spread Protection. Market Orders will be rejected if the best of the NBBO and the internal market PBBO (the "Reference PBBO") is wider than a preset threshold at the time the Market Order is received by the System. Market Order Spread Protection shall not apply to the Opening Process or during a halt.
- (b) The following are order and quote protections on Phlx:

## ([a]1) Acceptable Trade Range.

- ([1]A) After the opening, the System will calculate an Acceptable Trade Range to limit the range of prices at which an order or quote (except an All-or-None Order) will be allowed to execute. The Acceptable Trade Range is calculated by taking the Reference Price, plus or minus a value to be determined by the Exchange. (i.e., the Reference Price (x) for sell orders/quotes and the Reference Price + (x) for buy orders/quotes). Upon receipt of a new order/quote, the Reference Price is the National Best Bid ("NBB") for sell orders and the National Best Offer ("NBO") for buy orders/quotes or the last price at which the order/quote is posted whichever is higher for a buy order/quote or lower for a sell order/quote.
- ([2]B) If an order/quote reaches the outer limit of the Acceptable Trade Range (the "Threshold Price") without being fully executed, it will be posted at the Threshold Price for a brief period, not to exceed one second ("Posting Period"), to allow more liquidity to be collected, unless a Quote Exhaust has occurred, in which case the Quote Exhaust process in Rule 1082(a)(ii)(B)(3) will ensue, triggering a new Reference Price. Upon posting, either the current Threshold Price of the order or an updated NBB for buy orders or the NBO for sell orders (whichever is higher for a buy order/lower for a sell order) then becomes the Reference Price for calculating a new Acceptable Trade Range. If the order/quote remains unexecuted, a New Acceptable Trade Range will be calculated and the order/quote will execute, route, or post up to the new Acceptable Trade Range Threshold Price, unless a member organization has requested that their orders be

SR-Phlx-2018-41 Page 19 of 22

returned if posted at the outer limit of the Acceptable Trade Range (in which case, the order will be returned). This process will repeat until either (i) the order/quote is executed, cancelled, or posted at its limit price or (ii) the order has been subject to a configurable number of instances of the Acceptable Trade Range as determined by the Exchange (in which case it will be returned).

([3]C) During the Posting Period, the Exchange will disseminate as a quotation: (i) the Threshold Price for the remaining size of the order triggering the Acceptable Trade Range and (ii) on the opposite side of the market, the best price will be displayed using the "non-firm" indicator message in accordance with the specifications of the network processor. Following the Posting Period, the Exchange will return to a normal trading state and disseminate its best bid and offer.

# (c) The following protections apply to Specialists and Registered Options Traders on Phlx:

([b]1) **Anti-Internalization** - Quotes and orders entered by Specialists and Registered Options Traders (as defined in Rule 1014) using the same Exchange badge will not be executed against quotes and orders entered on the opposite side of the market using the same badge. In such a case, the System will cancel the resting quote or order back to the entering party prior to execution. This functionality shall not apply in any auction or with respect to complex transactions.

# (2) Automated Removal of Quotes

(A) A specialist, Streaming Ouote Trader or Remote Streaming Ouote Trader (collectively "Market Maker") may provide a specified time period and a specified percentage (as these terms are defined below) by which the Exchange's Phlx XL system ("System") will automatically remove a Market Maker's quotes in all series of an underlying security submitted through designated Phlx protocols, as specified by the Exchange, during a specified time period established by the Market Maker not to exceed 15 seconds ("Percentage-Based Specified Time Period"). For each series in an option, the System will determine: (i) the percentage that the number of contracts executed in that series represents relative to the disseminated size, the original size quoted by the Market Maker, of each side in that series ("Series Percentage"); and (ii) the sum of the Series Percentage in the option issue ("Issue Percentage"). The System tracks and calculates the net impact of positions in the same option issue; long call percentages are offset by short call percentages, and long put percentages are offset by short put percentages in the Issue Percentage. If the Issue Percentage, rounded to the nearest integer, equals or exceeds a percentage established by a Market Maker, not less than 1% ("Specified Percentage"), the System will automatically remove a Market Maker's quotes in all series of the underlying security submitted through designated Phlx protocols, as specified by the Exchange, during the Percentage-Based Specified Time Period ("Percentage-Based Threshold"). A Percentage-Based Specified Time Period will commence

SR-Phlx-2018-41 Page 20 of 22

for an option every time an execution occurs in any series in such option and will continue until the System removes quotes as described in (iv) or (v) or the Percentage-Based Specified Time Period expires. A Percentage -Based Specified Time Period operates on a rolling basis among all series in an option in that there may be multiple Percentage-Based Specified Time Periods occurring simultaneously and such Percentage-Based Specified Time periods may overlap.

(B) A specialist, Streaming Quote Trader or Remote Streaming Quote Trader (collectively "Market Maker") may provide a specified time period and a volume threshold by which the Exchange's Phlx XL system ("System") will automatically remove a Market Maker's quotes in all series of an underlying security submitted through designated Phlx protocols, as specified by the Exchange, during a specified time period established by the Market Maker not to exceed 15 seconds ("Volume-Based Specified Time Period") when the Market Maker executes a number of contracts which equals or exceeds the designated number of contracts in all options series in an underlying security ("Volume-Based Threshold"). The Market Maker's Volume-Based Specified Time Period must be the same length of time as designated for purposes of the Percentage-Based Threshold. A Volume-Based Specified Time Period will commence for an option every time an execution occurs in any series in such option and will continue until the System removes quotes as described in (iv) or (v) or the Volume-Based Specified Time Period expires. A Volume-Based Specified Time Period operates on a rolling basis among all series in an option in that there may be multiple Volume-Based Specified Time Periods occurring simultaneously and such Volume-Based Specified Time periods may overlap.

(C) A Market Maker or Market Maker Group (multiple affiliated Market Makers is a "Group" as defined by a Phlx member and provided by such member to the Exchange) may provide a Specified Time Period and number of allowable triggers by which the Exchange will automatically remove quotes in all options series in all underlying issues submitted through designated Phlx protocols, as specified by the Exchange ("Multi-Trigger Threshold"). During a specified time period(s) established by the Market Maker not to exceed 15 seconds ("Multi-Trigger Specified Time Period"), the number of times the System automatically removes the Market Maker's or Group's quotes in all options series will be based on the number of triggers of the Percentage-Based Threshold, described in (i) above, as well as the Volume-Based Threshold described in (ii) above. Once the System determines that the number of triggers equals or exceeds a number established by either the Market Maker or Group, during a Multi-Trigger Specified Time Period, the System will automatically remove all quotes in all options series in all underlying issues for that Market Maker or Group. A trigger is defined as the event which causes the System to automatically remove in all options series in an underlying issue. A Multi-Trigger Specified Time Period will commence after every trigger of either the Percentage-Based Threshold or the Volume-Based Threshold and will continue until the System removes quotes as described in (iv) or the Multi-Trigger Specified Time Period expires. The System

SR-Phlx-2018-41 Page 21 of 22

counts triggers within the Multi-Trigger Specified Time Period across all triggers for the Market Maker or Group. A Multi-Trigger Specified Time Period operates on a rolling basis in that there may be multiple Multi-Trigger Specified Time Periods occurring simultaneously and such Multi-Trigger Specified Time Periods may overlap.

- (D) The System will automatically remove quotes in all options in an underlying security when the Percentage-Based Threshold or Volume-Based Threshold has been reached. The System will automatically remove quotes in all options in all underlying securities when the Multi-Trigger Threshold has been reached. The System will send a Purge Notification Message to the Market Maker for all affected options when the above thresholds have been reached.
  - (i) The Percentage-Based Threshold or Volume-Based Threshold and Multi-Trigger Threshold, are considered independently of each other.
  - (ii) Quotes will be automatically executed up to the Market Maker's size regardless of whether the execution exceeds the Percentage-Based Threshold or Volume-Based Threshold.
- (E) If a Market Maker requests the System to remove quotes in all options series in an underlying issue, the System will automatically reset the Percentage-Based Specified Time Period(s) or Volume-Based Specified Time Period(s). The Multi-Trigger Specified Time Period(s) will not automatically reset for the Multi-Trigger Threshold.
- (F) When the System removes quotes as a result of the Percentage-Based Threshold or Volume- Based Threshold, the Market Maker must send a re-entry indicator to re-enter the System. When the System removes quotes as a result of the Multi-Trigger Threshold, the System will not accept quotes through designated protocols until the Market Maker manually requests re-entry. After quotes are removed as a result of the Multi-Trigger Threshold, Exchange staff must set a re-entry indicator in this case to enable re-entry, which will cause the System to send a Reentry Notification Message to the Market Maker for all options series in all underlying issues. The Market Maker's Clearing Firm will be notified regarding the trigger and re-entry into the System after quotes are removed as a result of the Multi-Trigger Threshold, provided the Market Maker's Clearing Firm has requested to receive such notification.
- (G) The Exchange will require Market Makers to utilize either the Percentage-Based Threshold or the Volume-Based Threshold. The Multi-Trigger Threshold is optional.
- [(c) **Order Price Protection** ("OPP"). OPP is a feature of the System that prevents certain day limit, good til cancelled, immediate or cancel, and all-or-none orders at prices outside of pre-set standard limits from being accepted by the System. OPP applies to all

SR-Phlx-2018-41 Page 22 of 22

options but does not apply to market orders, stop limit orders, Intermarket Sweep Orders or complex orders.

- (1) OPP is operational each trading day after the opening until the close of trading, except during trading halts.
- (2) OPP will reject incoming orders that exceed certain parameters according to the following algorithm.
  - (A) If the better of the NBBO or the internal market BBO (the "Reference BBO") on the contra-side of an incoming order is greater than \$1.00, orders with a limit more than 50% through such contra-side Reference BBO will be rejected by the System upon receipt. For example, if the Reference BBO on the offer side is \$1.10, an order to buy options for more than \$1.65 would be rejected. Similarly, if the Reference BBO on the bid side is \$1.10, an order to sell options for less than \$0.55 will be rejected.
  - (B) If the Reference BBO on the contra-side of an incoming order is less than or equal to \$1.00, orders with a limit more than 100% through such contra-side Reference BBO will be rejected by the System upon receipt. For example, if the Reference BBO on the offer side is \$1.00, an order to buy options for more than \$2.00 would be rejected. However, if the Reference BBO of the bid side of an incoming order to sell is less than or equal to \$1.00, the OPP limits set forth above will result in all incoming sell orders being accepted regardless of their limit. To illustrate, if the Reference BBO on the bid side is equal to \$1.00, the OPP limits provide protection such that all orders to sell with a limit less than \$0.00 would be rejected.
  - (C) For purposes of this rule, the NBBO is defined as the PBBO for singlylisted issues.
- (d) **Market Order Spread Protection**. Market Orders will be rejected if the best of the NBBO and the internal market PBBO (the "Reference PBBO") is wider than a preset threshold at the time the Market Order is received by the System. Market Order Spread Protection shall not apply to the Opening Process or during a halt.]

\* \* \* \* \* \*