

will be webcast. The agenda and information about how to join the webcast will be available the week of the event at: <https://www.nitrtd.gov/nitrtdgroups/index.php?title=HPC-BD-Convergence>.

Workshop Goals: HEC and BD members will use information gathered from this workshop to inform their agency-specific research agendas.

Workshop Objectives: Identify and discuss: use cases and applications from a variety of domains; current activities to address the convergence challenge and the research and technologies that are still needed; strategies for combining the HPC, BD, and ML software and hardware ecosystems; strategies for combining the “people culture” of HPC, BD, and ML; and different modes of operation.

Submitted by the National Science Foundation in support of the Networking and Information Technology Research and Development (NITRD) National Coordination Office (NCO) on October 2, 2018.

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Reports Clearance Officer, National Science Foundation.

[FR Doc. 2018-21720 Filed 10-4-18; 8:45 am]

BILLING CODE 7555-01-P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-84326; File No. SR-BX-2018-046]

Self-Regulatory Organizations; Nasdaq BX, Inc.; Notice of Filing and Immediate Effectiveness of Proposed Rule Change To Relocate the Pricing Schedule Rules

October 1, 2018.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”),¹ and Rule 19b-4 thereunder,² notice is hereby given that on September 17, 2018, Nasdaq BX, Inc. (“BX” or “Exchange”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange proposes to (a) relocate its current Rule 7000 Series (“Equities Pricing”) and the rules at Chapter XV (“Options Pricing”; together, “Equities and Options Pricing”) to the Exchange’s rulebook’s (“Rulebook”) shell structure;³ (b) make conforming cross-reference changes throughout the Rulebook; and (c) amend the Equity 4’s title in the shell structure.

The text of the proposed rule change is available on the Exchange’s website at <http://nasdaqbx.cchwallstreet.com/>, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to (a) relocate the Equities and Options Pricing rules, currently under the Equities Rule 7000 Series and Options Chapter XV, into the Rulebook’s shell structure, respectively, under Equity 7 and Options 7 (both named “Pricing Schedule”); (b) make conforming cross-reference changes throughout the Rulebook; and (c) amend the Equity 4’s title, “Equity Listing Rules,” in the shell structure, as detailed below.

(a) Relocation of the Pricing Rules

The Exchange, as part of its continued effort to promote efficiency and the conformity of its processes with those of

³ In 2017, the Exchange added a shell structure to its Rulebook with the purpose of improving efficiency and readability and to align its rules closer to those of its five sister exchanges, The Nasdaq Stock Market LLC; Nasdaq PHLX LLC; Nasdaq ISE, LLC; Nasdaq GEMX, LLC; and Nasdaq MRX, LLC (“Affiliated Exchanges”). See Securities Exchange Act Release No. 82174 (November 29, 2017), 82 FR 57492 (December 5, 2017) (SR-BX-2017-054).

the Affiliated Exchanges,⁴ and the goal of harmonizing and uniformizing its rules, proposes to relocate the Equities Pricing rules, currently under the Rule 7000 Series, into Equity 7, Pricing Schedule, of the shell structure. Specifically, the Exchange will add the word “Section” and renumber the Equities Pricing rules as detailed in the table below:

Rule 7000 Series	Equity 7
7000	Section 1.
7001	Section 10.
7002	Section 20.
7003	Section 30.
7010	Section 100.
7011	Section 111.
7012	Section 112.
7013	Section 113.
7014	Section 114.
7015	Section 115.
7016	Section 116.
7017	Section 117.
7018	Section 118.
7019	Section 119.
7020	Section 120.
7021	Section 121.
7022	Section 122.
7023	Section 123.
7024	Section 124.
7025	Section 125.
7026	Section 126.
7027	Section 127.
7028	Section 128.
7029	Section 129.
7030	Section 130.
7031	Section 131.
7032	Section 132.
7033	Section 133.
7034	Section 134.
7035	Section 135.
7039	Section 139.
7047	Section 147.
7051	Section 151.
7055	Section 155.
7058	Section 158.

The Exchange will also relocate the Options Pricing rules, currently under Chapter XV, into Options 7, Pricing Schedule, of the shell structure. No renumbering of the Options Pricing Schedule will be necessary other than replacing the abbreviated word “Sec.” with the full word “Section.”

The Exchange believes that the relocation of the Equities and Options Pricing rules will facilitate the use of the Rulebook by Members⁵ of the Exchange, including those who are members of other Affiliated Exchanges, and other market participants. Moreover, the proposed changes are of a non-substantive nature and they will not amend the relocated rules, other than to update their numbers as detailed above.

⁴ See footnote 3.

⁵ Exchange Rule 0120(i).

(b) Cross-Reference Updates

In connection with the changes described above, the Exchange proposes to update all cross-references in the Rulebook that direct the reader to the current placement of the Equities and Options Pricing rules and/or any of their subsections. Furthermore, the Exchange notes that the proposed amendments include cross-reference updates to the Connectivity rules under General 8, Section 1.⁶ Moreover, for consistency with the current title of General 8, Section 2 (“Direct Connectivity”), the Exchange proposes to update the description provided under Rule 7011(a) (to be relocated under Equity 7, Section 111(a)) by removing the text “to BX”.

(c) Amendment of the Equity 4’s Title

Finally, the Exchange will amend Equity 4’s title in the shell structure, currently “Equity Listing Rules,” and replace it with the word “Reserved,” since no rules will be placed in this section of the shell structure.

2. Statutory Basis

The Exchange believes that its proposal is consistent with Section 6(b) of the Act,⁷ in general, and furthers the objectives of Section 6(b)(5) of the Act,⁸ in particular, in that it is designed to promote just and equitable principles of trade, to remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general to protect investors and the public interest, by promoting efficiency and structural conformity of the Exchange’s processes with those of the Affiliated Exchanges and to make the Exchange’s Rulebook easier to read and more accessible to its Members and market participants. The Exchange believes that the relocation of the Equities and Options Pricing rules, cross-reference updates, and the amendment to the Equity 4’s title are of a non-substantive nature.

B. Self-Regulatory Organization’s Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will impose any burden on competition not necessary or appropriate in furtherance of the purposes of the Act. The proposed changes do not impose a burden on competition because, as previously stated, they (i) are of a non-substantive nature, (ii) are intended to

harmonize the structure of the Exchange’s rules with those of its Affiliated Exchanges, and (iii) are intended to organize the Rulebook in a way that it will ease the Members’ and market participants’ navigation and reading of the rules.

C. Self-Regulatory Organization’s Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

No written comments were either solicited or received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) Significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, it has become effective pursuant to Section 19(b)(3)(A) of the Act⁹ and Rule 19b-4(f)(6) thereunder.¹⁰

A proposed rule change filed pursuant to Rule 19b-4(f)(6) under the Act¹¹ normally does not become operative for 30 days after the date of its filing. However, Rule 19b-4(f)(6)(iii)¹² permits the Commission to designate a shorter time if such action is consistent with the protection of investors and the public interest. The Exchange has requested that the Commission waive the 30-day operative delay so that the proposed rule change may become operative upon filing. Waiver of the operative delay would allow the Exchange to promptly relocate the Pricing Schedule rules and continue to reorganize its Rulebook to promote efficiency and structural consistency between the Exchange’s rules and those of the Affiliated Exchanges. The Commission believes that waiver of the 30-day operative delay is consistent with the protection of investors and the public interest. Accordingly, the Commission hereby waives the operative delay and designates the proposed rule change operative upon filing.¹³

⁹ 15 U.S.C. 78s(b)(3)(A).

¹⁰ 17 CFR 240.19b-4(f)(6). As required under Rule 19b-4(f)(6)(iii), the Exchange provided the Commission with written notice of its intent to file the proposed rule change, along with a brief description and the text of the proposed rule change, at least five business days prior to the date of filing of the proposed rule change, or such shorter time as designated by the Commission.

¹¹ 17 CFR 240.19b-4(f)(6).

¹² 17 CFR 240.19b-4(f)(6)(iii).

¹³ For purposes only of waiving the 30-day operative delay, the Commission also has

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views, and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission’s internet comment form (<http://www.sec.gov/rules/sro.shtml>); or
- Send an email to rule-comments@sec.gov. Please include File Number SR-BX-2018-046 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549-1090.
- All submissions should refer to File Number SR-BX-2018-046. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission’s internet website (<http://www.sec.gov/rules/sro.shtml>). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission’s Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10:00 a.m. and 3:00 p.m. Copies of the filing also will be available for

considered the proposed rule’s impact on efficiency, competition, and capital formation. See 15 U.S.C. 78c(f).

⁶ See Securities Exchange Act Release No. 83535 (June 28, 2018), 83 FR 31241 (July 3, 2018) (SR-BX-2018-024).

⁷ 15 U.S.C. 78f(b).

⁸ 15 U.S.C. 78f(b)(5).

inspection and copying at the principal office of the Exchange. All comments received will be posted without change. Persons submitting comments are cautioned that we do not redact or edit personal identifying information from comment submissions. You should submit only information that you wish to make available publicly. All submissions should refer to File Number SR–BX–2018–046 and should be submitted on or before October 26, 2018.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.¹⁴

Eduardo A. Aleman,

Assistant Secretary.

[FR Doc. 2018–21681 Filed 10–4–18; 8:45 am]

BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34–84327; File No. SR–CboeEDGX–2018–041]

Self-Regulatory Organizations; Cboe EDGX Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Adopt a New Order Type Called the MidPoint Discretionary Order (“MDO”) Under Paragraph (g) of Exchange Rule 11.8 and To Amend the Definition of the Super Aggressive Instruction Under Paragraph (n)(2) of Exchange Rule 11.6

October 1, 2018.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (the “Act”),¹ and Rule 19b–4 thereunder,² notice is hereby given that on September 19, 2018, Cboe EDGX Exchange, Inc. (the “Exchange” or “EDGX”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Exchange has designated this proposal as a “non-controversial” proposed rule change pursuant to Section 19(b)(3)(A) of the Act³ and Rule 19b–4(f)(6)(iii) thereunder,⁴ which renders it effective upon filing with the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

The Exchange is proposing to adopt a new order type called the MidPoint Discretionary Order (“MDO”) under paragraph (g) of Exchange Rule 11.8 and to amend the definition of the Super Aggressive instruction under paragraph (n)(2) of Exchange Rule 11.6.

The text of the proposed rule change is available at the Exchange’s website at www.markets.cboe.com, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in Sections A, B, and C below, of the most significant parts of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to adopt a new order type known as the MDO under new paragraph (g) of Exchange Rule 11.8 and to amend the definition of the Super Aggressive instruction under paragraph (n)(2) of Exchange Rule 11.6.

Proposed MDOs on EDGX

MDOs are designed to exercise discretion to execute to the midpoint of the NBBO and provide price improvement to contra-side orders over the NBBO. The proposed MDO would function similarly to the MDO offered by EDGA,⁵ but would also include certain aspects that mirror functionality currently available through the Discretionary Pegged Order and MPL–ALO Order offered by NYSE Arca, as well as the Discretionary Peg Order offered by IEX.⁶ The core functionality

⁵ See EDGA Rule 11.8(e).

⁶ See NYSE Arca Rule 7.31–E(h)(3) (defining the Discretionary Pegged Order). See also Securities Exchange Act Release No. 78181 (June 28, 2016), 81 FR 43297 (July 1, 2016) (order approving the Discretionary Pegged Order). See NYSE Arca Rule 7.31–E(d)(3)(F). See IEX Rule 11.190(a)(3) (defining Pegged Orders and a non-displayed order which

of the proposed MDO, EDGA’s MDO, NYSE Arca’s Discretionary Pegged Order, and IEX’s Discretionary Peg Order would be the same—being pegged to the NBBO, as applicable, with discretion to execute to the midpoint of the NBBO.

Proposed Operation. An MDO would be defined as a Limit Order⁷ that is executable at the National Best Bid (“NBB”) for an order to buy or the National Best Offer (“NBO”) for an order to sell while resting on the EDGX Book,⁸ with discretion to execute at prices to and including the midpoint of the NBBO. Upon entry, an MDO will only execute against resting orders that include a Super Aggressive instruction⁹ priced at the MDO’s pegged price if the MDO also contains a Displayed instruction¹⁰ and against orders with a Non-Displayed Swap (“NDS”) instruction¹¹ priced at the MDO’s pegged price or within its discretionary range. As a result, an MDO will not act as a liquidity remover upon entry against resting orders at its pegged price or at any price within its discretionary range. Should a resting contra-side order within the MDO’s discretionary range not include an NDS instruction, the incoming MDO will be placed on the EDGX Book and its discretionary range shortened to equal the limit price of the contra-side resting order. Likewise, where an incoming order with a Post Only instruction¹² does not remove

may be pegged to the inside quote on the same side of the market with discretion to the midpoint of the NBBO, *i.e.*, Discretionary Peg orders). See also Securities Exchange Act Release No. 78101 (June 17, 2016), 81 FR 41141 (June 23, 2016) (order approving the IEX exchange application, which included IEX’s Discretionary Peg Orders and Discretionary Peg Order).

⁷ See Exchange Rule 11.8(b). In sum, a Limit Order is an order to buy or sell a stated amount of a security at a specified price or better.

⁸ See Exchange Rule 1.5(d).

⁹ See Exchange Rule 11.6(n)(2).

¹⁰ Pursuant to the terms of the Super Aggressive instruction, such orders execute against incoming orders with a Post Only instruction only when such orders also contain a Displayed instruction. See Exchange Rule 11.6(n)(7). As noted below, the Exchange also proposes to amend the definition of the Super Aggressive instruction to reflect the addition of the MDO order type. Further, although an order with a Super Aggressive instruction resting at the pegged price of an MDO should be a rare occurrence, because orders with a Super Aggressive instruction route to locking or crossing quotes at away Trading Centers and an MDO is pegged to the NBBO (*i.e.*, the locking price), it is possible to have an order with a Super Aggressive instruction at such price based on the Exchange’s matching and routing logic as well as the Exchange’s calculation of the NBBO and processing of quote updates. See, *e.g.*, Securities Exchange Act Release No. 74072 (January 15, 2015), 80 FR 3282 (January 22, 2015) (SR–EDGX–2015–02) (describing the Exchange’s calculation of the NBBO, including router feedback and other details).

¹¹ See Exchange Rule 11.6(n)(7).

¹² See Exchange Rule 11.6(n)(4).

¹⁴ 17 CFR 200.30–3(a)(12).

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b–4.

³ 15 U.S.C. 78s(b)(3)(A).

⁴ 17 CFR 240.19b–4(f)(6)(iii).