

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-94601; File No. SR-CboeBZX-2021-086]

Self-Regulatory Organizations; Cboe BZX Exchange, Inc.; Notice of Filing of Amendment No. 2 and Order Instituting Proceedings To Determine Whether To Approve or Disapprove a Proposed Rule Change, as Modified by Amendment No. 2, To Amend the Opening Auction Process Provided Under Rule 11.23(b)(2)(B)

April 4, 2022.

On December 21, 2021, Cboe BZX Exchange, Inc. (“BZX” or “Exchange”) filed with the Securities and Exchange Commission (“Commission”), pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (“Act”) ¹ and Rule 19b-4 thereunder,² a proposed rule change to amend the Opening Auction process under BZX Rule 11.23(b)(2)(B). The proposed rule change was published for comment in the *Federal Register* on January 5, 2022.³ On February 14, 2022, pursuant to Section 19(b)(2) of the Act,⁴ the Commission designated a longer period within which to approve the proposed rule change, disapprove the proposed rule change, or institute proceedings to determine whether to disapprove the proposed rule change.⁵ On April 1, 2022, the Exchange filed Amendment No. 2 to the proposed rule change, which amended and superseded the proposed rule change as originally filed.⁶ The Commission is publishing this notice and order to solicit comments on the proposed rule change, as modified by Amendment No. 2, from interested persons and to institute proceedings pursuant to Section 19(b)(2)(B) of the Act⁷ to determine whether to approve or disapprove the proposed rule change, as modified by Amendment No. 2.

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

³ See Securities Exchange Act Release No. 93888 (December 30, 2021), 87 FR 532.

⁴ 15 U.S.C. 78s(b)(2).

⁵ See Securities Exchange Act Release No. 94238, 87 FR 9399 (February 18, 2022). The Commission designated April 5, 2022, as the date by which the Commission shall approve or disapprove, or institute proceedings to determine whether to disapprove, the proposed rule change.

⁶ On March 31, 2022, the Exchange submitted Amendment No. 1 to the proposed rule change, and on April 1, 2022, the Exchange withdrew Amendment No. 1 to the proposed rule change. Amendment No. 2 is available on the Commission’s website at: <https://www.sec.gov/comments/sr-cboebzx-2021-086/sr-cboebzx2021086-20122189-278229.pdf>.

⁷ 15 U.S.C. 78s(b)(2)(B).

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

The Exchange is filing with the Securities and Exchange Commission (“Commission”) a proposal to amend the Opening Auction process provided under Rule 11.23(b)(2)(B) to better align the Opening Auction Process with current market conditions, and, where certain market conditions are not optimal, to delay the Opening Auction from occurring until those market conditions have improved. The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/equities/regulation/rule_filings/bzx/), at the Exchange’s Office of the Secretary, 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

This Amendment No. 2 to SR-CboeBZX-2021-086 amends and replaces in its entirety the proposal amended March 31, 2022⁸ and as originally submitted on December 21, 2022 [sic]. The Exchange submits this Amendment No. 2 in order to clarify certain points and add additional details to the proposal.

The Exchange proposes to amend Rule 11.23(b)(2)(B) to make the Opening Auction process more dynamic by, under certain circumstances delaying the Opening Auction in order to incorporate additional information into the determination of the Opening Auction price. Specifically, as proposed

⁸ The Exchange filed Amendment No. 1 March 31, 2022, which amended the proposal as originally submitted on December 31, 2022 [sic]. On April 1, 2022, the Exchange withdrew that amendment and submitted this Amendment No. 2.

the Rule would provide that when there is no Valid NBBO⁹ in a BZX-listed security and there is an Indicative Price¹⁰ that is not within the Collar Price Range,¹¹ the Opening Auction will be delayed until market conditions improve or the delay period has lapsed, as further described below. The Exchange notes that the official opening price disseminated by the primary listing market provides market participants valuable information which in most cases is used to calculate the initial limit up-limit down (“LULD”) bands and also may serve as the basis for trading strategies for that trading day. However, the official opening price is not as important or time sensitive as the official closing price disseminated by the primary listing market, which is used for the pricing and valuation of certain indices, funds and derivative products. As such, the Exchange believes that the proposal strikes an appropriate balance by providing additional time for the Opening Auction process to occur so that under such circumstances BZX-listed securities have an opportunity for more meaningful price formation that is more representative of current market conditions, but does not delay the determination of the BZX Official Opening Price so as to impact the processes that use the official opening price, such as the dissemination of certain data by the Securities Information Processor (“SIP”).¹²

⁹ As provided in Rule 11.23(a)(23), an NBBO is a Valid NBBO where: (i) There is both a NBB and NBO for the security; (ii) the NBBO is not crossed; and (iii) the midpoint of the NBBO is less than the Maximum Percentage away from both the NBB and the NBO. See Exchange Rule 11.23(a)(23). The Maximum Percentage will vary depending on the price of the NBBO midpoint. Currently, the Maximum Percentages are as follows: For a NBBO midpoint price less than or equal to \$25, the Maximum Percentage is 5%; for a NBBO midpoint price greater than \$25 but less than or equal to \$50, the Maximum Percentage is 2.5%; for a NBBO midpoint price greater than \$50, the Maximum Percentage is 1.5%. See Section 1.5 (Definitions) of the US Equities Auction Process at https://cdn.cboe.com/resources/membership/Cboe_US_Equities_Auction_Process.pdf.

¹⁰ The term “Indicative Price” shall mean the price at which the most shares from the Auction Book and the Continuous Book would match. In the event of a volume based tie at multiple price levels, the Indicative Price will be the price which results in the minimum total imbalance. In the event of a volume based tie and a tie in minimum total imbalance at multiple price levels, the Indicative Price will be the price closest to the Volume Based Tie Breaker. See Exchange Rule 11.23(a)(10).

¹¹ See Exchange Rule 11.23(a)(6).

¹² The SIP links the U.S. markets by processing and consolidating all protected bid/ask quotes and trades from every trading venue into a single data feed.

Background

As noted above, the Exchange is proposing that under limited circumstances its current Opening Auction process would be amended to delay the process such that additional information could be incorporated into the determination of the Opening Auction price. Currently, Rule 11.23(b)(2)(B) sets forth the process by which the BZX Official Opening Price¹³ is determined for BZX-listed securities during the Opening Auction Process. Specifically, as provided in Rule 11.23(b)(2)(B), the Opening Auction price will be the price level within the Collar Price Range that maximizes the number of shares executed between the Continuous Book¹⁴ and Auction Book¹⁵ in the Opening Auction. In the event of a volume based tie at multiple price levels, the Opening Auction price will be the price which results in the minimum total imbalance. In the event of a volume based tie and a tie in minimum total imbalance at multiple price levels, the Opening Auction price will be the price closest to the Volume Based Tie Breaker.¹⁶

The Volume Based Tie Breaker for an Opening Auction will be the midpoint of the NBBO where there is a Valid NBBO. Where there is no Valid NBBO, the Final Last Sale Eligible Trade ("FLSET")¹⁷ will be used as the Volume Based Tie Breaker.¹⁸ Because the FLSET is typically based on the most recent execution in a security during Regular Trading Hours, its value may be significantly away from the Indicative Price at the time of the Opening Auction process, especially in more thinly traded securities. As a result, the Exchange has observed instances where auction eligible orders priced in-line with the Indicative Price were not executed in the Opening Auction because they were outside the Collar Price Range established using the FLSET. Based on analysis by the Exchange and feedback from market participants, certain of these instances resulted in orders not receiving executions in the Opening Auction that would have otherwise occurred at prices that would have been acceptable to both

parties to the execution. To illustrate this point, the Exchange presents the following example.

Example 1

Consider a security with a prevailing NBBO at 9:30:00 a.m. of \$27.10 × \$29.54 and two Limit-On-Open orders on the Auction Book—a buy for 1,000 shares at \$27.90 and a sell for 1,500 shares at \$27.90.¹⁹ The Indicative Price, which is the price at which the most shares from the Auction Book and the Continuous Book would match, would be \$27.90 because the only crossed interest comes from the two orders on the Auction Book. Therefore, there is crossed interest willing to execute at a price within the NBBO. However, because the midpoint of the NBBO (*i.e.*, \$28.32) is more than the Maximum Percentage²⁰ away from both the NBB and NBO, the NBBO is not a Valid NBBO and thus the NBBO midpoint would not be used as the Volume Based Tie Breaker. Instead, the Volume Based Tie Breaker would be the FLSET, which would, by definition, be the BZX Official Closing Price from the previous business day, which was \$26.52. Using the FLSET as the Collar Midpoint,²¹ the Collar Price Range would be \$25.19 × \$27.85.²² Because the Indicative Price is outside of the Collar Price Range and there is no crossed interest within the Collar Price Range, there would be no execution as part of the Opening Auction. Therefore, crossed interest from the Auction Book that was priced equal to or more aggressive than the Indicative Price and was within the NBBO would be canceled without execution.²³

Proposal

Based on the scenario described above, the Exchange is proposing to change its Opening Auction functionality only in circumstances where (i) there is an Indicative Price, (ii) there is not a Valid NBBO, and/or (iii) the Indicative Price is not within the FLSET-established Collar Price Range. As proposed and described in further detail below, the Opening Auction would occur pursuant to the Standard Opening Auction Process if the NBBO becomes a Valid NBBO (*i.e.*, the spread narrows as markets open such that the

midpoint of the NBBO is less than the Maximum Percentage away from both the NBB and the NBO) before 9:30:05, or if the Indicative Price moves within the Collar Price Range set by the FLSET (*i.e.*, orders on the Auction Book and/or non-displayed orders on the Continuous Book change the price level at which the most shares from the Auction Book and the Continuous Book would match to be within the Collar Price Range) prior to 9:34:30.

Proposed Rule 11.23(b)(2)(B)(i) would set forth the "Standard Opening Process", which mirrors the current process described in Rule 11.23(b)(2)(B). Proposed Rule 11.23(b)(2)(B)(ii) would provide that if there is no Valid NBBO and the Indicative Price is within the Collar Price Range, the Opening Auction price will be established pursuant to the Standard Opening Process. Proposed Rule 11.23(b)(2)(B)(iii) would delay and set forth an alternative Opening Auction Process in the event there is no Valid NBBO and the Indicative Price is not within the Collar Price Range. The proposal is designed to prevent the cancellation of auction eligible orders priced equally or more aggressive than the Indicative Price which the Exchange believes will facilitate the presence of sufficient liquidity and information to make the Opening Auction a meaningful price formation event in BZX-listed securities.

Proposed Rule 11.23(b)(2)(B)(iii) would provide that the Opening Auction price will be delayed as set forth in subparagraphs (a) and (b) as follows:

(a) If after the one-second delay there is a Valid NBBO or the Indicative Price is within the Collar Price Range, the Opening Auction price will be established pursuant to the Standard Opening Auction Process. If there is no Valid NBBO and the Indicative Price is not within the Collar Price Range after the one-second delay, the Opening Auction will be delayed by one additional second, at which point if there is a Valid NBBO or the Indicative Price is within the Collar Price Range, the Opening Auction price will be established pursuant to the Standard Opening Process. If after the additional one-second delay there is a Valid NBBO or the Indicative Price is not within the Collar Price Range, the process described in this paragraph (a) will continue to be applied in one-second increments until either the Opening Auction occurs or until five seconds has lapsed (*i.e.*, 9:30:05 a.m.).

(b) If the Opening Auction has not occurred by 9:30:05, the System will widen the Collar Price Range in the direction of the Indicative Price by 5%

¹³ See Exchange Rule 11.23(a)(5).

¹⁴ See Exchange Rule 11.23(a)(7).

¹⁵ See Exchange Rule 11.23(a)(1).

¹⁶ The Volume Based Tie Breaker is the midpoint of the NBBO for a particular security where the NBBO is a Valid NBBO. Where the NBBO is not a Valid NBBO, the price of the FLSET is used as the Volume Based Tie Breaker. See Exchange Rule 11.23(a)(23).

¹⁷ See Exchange Rule 11.23(a)(9).

¹⁸ The Exchange estimates that there is no Valid NBBO for approximately 5.81% of the Exchange's Opening Auctions.

¹⁹ For purposes of this example, there are no orders on the Continuous Book.

²⁰ As noted above, the Maximum Percentage for a NBBO midpoint price greater than \$25 but less than or equal to \$50 is 2.5%.

²¹ As provided in Rule 11.23(a)(6), the Collar Midpoint is the Volume Based Tie Breaker for Opening Auctions.

²² The Collar Price Range is always double the Maximum Percentage. Therefore, the Collar Price Range in Example 1 is 5%.

²³ See Exchange Rule 11.23(b)(3)(C).

of the Volume Based Tie Breaker, which will be Final Last Sale Eligible Trade as of 9:30:05 a.m. (the “Widening Amount”).²⁴ If the Indicative Price is within the widened Collar Price Range, the Opening Auction price will be established pursuant to the Standard Opening Auction Process. If the Indicative Price is not within the widened Collar Price Range, the Opening Auction will be further delayed, as discussed below.

In sum, the process described in proposed paragraph Rule 11.23(b)(2)(B)(iii)(a) would simply allow for the Opening Auction to occur using the Standard Opening Process described in paragraph 11.23(b)(2)(B)(i), the only difference between the current process being that such Opening Auction could instead occur within the first five seconds of Regular Trading Hours²⁵ based on whether there is a Valid NBBO or the Indicative Price is within the Collar Price Range. If, after each one-second delay, there is no longer an Indicative Price (*i.e.*, there is no longer crossed interest), the Opening Auction would occur immediately pursuant to proposed Rule 11.23(2)(B)(v). After the first five seconds of Regular Trading Hours, the System will only check for whether the Indicative Price is within the Collar Price Range and will not check for a Valid NBBO because the process described in Proposed Rules 11.23(b)(2)(B)(iii)(b)(1) through (4) is intended to closely follow the reopening process that is described in the Twelfth Amendment of the Plan to Address Extraordinary Market Volatility²⁶ (the “Plan”) and corresponding Exchange Rules, as described in further detail below.

Proposed Rules 11.23(b)(2)(B)(iii)(b)(1) through (4) would set forth the delay of the Opening Auction if no auction has occurred between 9:30:05 and 9:34:30. Specifically, the proposed Rules would provide:

(1) The System will check to see whether the Indicative Price is inside the widened Collar Price Range every second between 9:30:05 and 9:30:30 a.m. If an Indicative Price is inside the widened Collar Price Range during a

check, the Opening Auction price will be established pursuant to the Standard Opening Auction Process.

(2) If by 9:30:30 a.m. the Indicative Price is not within the widened Collar Price Range, the Collar Price Range will again widen by the Widening Amount. The System will check to see whether the Indicative Price is inside the widened Collar Price Range every second between 9:30:30 and 9:31:30 a.m. If an Indicative Price is inside the widened Collar Price Range during a check, the Opening Auction price will be established pursuant to the Standard Opening Auction Process.

(3) If by 9:31:30 a.m. the Indicative Price is not within the widened Collar Price Range, the System will check to see whether the Indicative Price is inside the widened Collar Price Range every second between 9:31:30 and 9:34:30 a.m. If an Indicative Price is inside the widened Collar Price Range during a check, the Opening Auction price will be established pursuant to the Standard Opening Auction Process. Unless the Opening Auction has occurred, the Collar Price Range will widen in the direction of the Indicative Price by the Widening Amount each minute from 9:31:30 to 9:34:30.

(4) If no Opening Auction has occurred by 9:34:30 a.m., the Opening Auction will occur pursuant to the Standard Opening Auction Process using the expanded Collar Price Range as of 9:34:30.

The Exchange first notes that if, during after each one-second delay, there is no longer an Indicative Price (*i.e.*, there is no longer crossed interest), the Opening Auction would occur immediately pursuant to proposed Rule 11.23(2)(B)(v).²⁷ The Exchange is also proposing to stop extending the Opening Auction Process at 9:34:30 a.m. in part to ensure that the Exchange is able to disseminate the BZX Official Opening Price with sufficient time to be used in the determination of the opening price²⁸ pursuant to the Plan, from which the reference price²⁹ is used

²⁷ The Exchange notes that the BZX Official Opening Price will be the price of the FLSET, which will be the previous BZX Official Closing Price unless an FLSET occurred after 9:30:00.

²⁸ For purposes of the Plan, “opening price” shall mean the price of a transaction that opens trading on the primary listing exchange. If the primary listing exchange opens with quotations, the “opening price” shall mean the closing price of the NMS Stock on the primary listing exchange on the previous trading day, or if no such closing price exists, the last sale on the primary listing exchange. See section I(I) of the Plan.

²⁹ For purposes of the plan, “reference price” shall have the meaning provided in Section V of the Plan. See section I(R) of the Plan. Section V of the Plan provides that the LULD price bands are based on a reference price for each NMS Stock that, for

to calculate the LULD bands. Specifically, the reference price for trading is typically the opening price on the primary listing exchange in an NMS Stock if such opening price occurs less than five minutes after the start of Regular Trading Hours. Therefore, because under the proposal the Opening Auction Process would occur no later than 9:34:30, the LULD bands would be determined based on the BZX Official Opening Price. While the LULD bands for BZX-listed securities could be determined pursuant to the Plan without a BZX Official Opening Price, the Exchange believes that the inclusion of such price provides for LULD bands that more accurately reflect current market conditions.

The Exchange also proposes to move the last two sentences of existing Rule 11.23(b)(2)(B) to proposed Rules 11.23(b)(2)(B)(iv) and (v), respectively, with certain modifications to Rule 11.23(b)(2)(B)(v). Specifically, proposed Rule 11.23(b)(2)(B)(iv) would provide that the Opening Auction Price will be the BZX Official Opening Price. Proposed Rule 11.23(b)(2)(B)(v) would provide that in the event that there is no Opening Auction for an issue, the BZX Official Opening Price will be the price of the FLSET. The Exchange proposes to eliminate the provision that states that the FLSET will be the previous BZX Official Closing Price as it is possible that an FLSET may occur between 9:30:00 and 9:34:30.

Based on the above proposed amendments, the Exchange proposes to amend Rules 11.23(b)(1)(A) and (B) to reflect that the Opening Auction may occur at a time other than 9:30 a.m. Specifically, the Exchange proposes to amend paragraph (A) to provide the following: Users may submit orders to the Exchange as set forth in Rule 11.1. Any Eligible Auction Orders³⁰ designated for the Opening Auction will be queued for participation in the Opening Auction. Users may submit limit-on-open (“LOO”) and market-on-open (“MOO”) orders until 9:28 a.m., at which point any additional LOO and MOO orders submitted to the Exchange

purposes of the first reference price for a trading day shall be the opening price on the primary listing exchange in an NMS Stock if such opening price occurs less than five minutes after the start of Regular Trading Hours. If the opening price on the primary listing exchange in an NMS Stock does not occur within five minutes after the start of Regular Trading Hours, the first reference price for a trading day shall be the arithmetic mean price of eligible reported transactions for the NMS Stock over the preceding five minute time period. If there is no opening price on the primary listing exchange in an NMS Stock and no trades have occurred by 9:35:00, the previous reference price shall remain in effect.

³⁰ See Exchange Rule 11.23(a)(8).

²⁴ The Exchange notes that Widening Amount will be locked-in as of 9:30:05, and will not change between 9:30:05 and 9:34:30 even in the event that a round lot trade reported to the consolidated tape was received by the Exchange during that time (*i.e.*, a FLSET).

²⁵ See Exchange Rule 1.5(w).

²⁶ See Securities and Exchange Act no. 79410 (November 28, 2016) 81 FR 87114 (December 2, 2016) (Notice of Filing of the Twelfth Amendment to the National Market System Plan To Address Extraordinary Market Volatility (“Amendment 12”).

will be rejected. Regular Hours Only³¹ (“RHO”) market orders will also be rejected from 9:28 a.m. until the Opening Auction has concluded. Users may submit late-limit-on-open³² (“LLOO”) orders from 9:28 a.m. until the Opening Auction has concluded. Any LLOO orders submitted before 9:28 a.m. or after the Opening Auction has concluded will be rejected. RHO limit orders submitted from 9:28 a.m. until the Opening Auction has concluded will be treated as LLOO orders.

The Exchange proposes to amend Rule 11.23(b)(1)(B) to provide that Eligible Auction Orders designated for the Opening Auction may not be cancelled or modified from 9:28 a.m. until the Opening Auction has concluded except that RHO limit orders designated for the Opening Auction may be modified, but not cancelled, from 9:28 a.m. until the time the Opening Auction has concluded. Any such RHO limit orders modified from 9:28 a.m. until the Opening Auction has concluded will be treated as LLOO orders.

To illustrate the proposed functionality, consider the following examples.

Example 2

Applying the same facts from Example 1 related to current functionality above, assume a security has a prevailing NBBO at 9:30:00 a.m. of $\$27.10 \times \29.54 and two Limit-On-Open orders on the Auction Book—a buy for 1,000 shares at $\$27.90$ and a sell for 1,500 shares at $\$27.90$.³³ The Indicative Price, which is the price at which the most shares from the Auction Book and the Continuous Book would match, would be $\$27.90$ because the only crossed interest comes from the two orders on the Auction Book.

Because there was no Valid NBBO and the Indicative Price was outside of the Collar Price Range, the System would check at each second starting at 9:30:00 and ending at 9:30:05 for a Valid NBBO and for the Indicative Price that is within the Collar Price Range. Assuming that these checks did not find a Valid NBBO or an Indicative Price within the Collar Price Range, after the check at 9:30:05 the Collar Price Range is widened in the direction of the Indicative Price by 5% of the FLSET (*i.e.*, $\$26.52$) as of 9:30:05, or $\$1.33$, resulting in a Collar Price Range of $\$25.19 \times \29.18 . Upon the first one second check thereafter, the Indicative

Price of $\$27.90$ is within the widened Collar Price Range and the auction occurs immediately pursuant to the Standard Opening Auction Process.

Example 3

Applying the facts from Example 2 above, but also considering that another two orders exist on the Auction Book including a buy order for 2,000 shares at $\$30.50$ and a sell order for 500 shares at $\$30.50$.³⁴ The additional orders entered to the Auction Book would move the Indicative Price to $\$30.50$ because $\$30.50$ would be the price at which the most shares would match (*i.e.*, 2,000 shares). Given that the Indicative Price ($\$30.50$) is not within the widened Collar Price Range calculated above ($\$25.19 \times \29.18), the Opening Auction would not occur after the first collar widening. As such, the System would check at each second starting at 9:30:05 and ending at 9:30:30 for an Indicative Price that is within the Collar Price Range. Assuming that the Indicative Price did not change and thus the checks would not find an Indicative Price within the Collar Price Range, after the check at 9:30:30 the Collar Price Range would once again be widened in the direction of the Indicative Price by the same 5% amount used for the initial collar widening at 9:30:05 ($\$1.33$). The Collar Price Range from 9:30:30 to 9:31:30 would then be $\$25.19 \times \30.51 . Upon the first one second check thereafter, the Indicative Price of $\$30.50$ is within the widened Collar Price Range and the auction would occur immediately pursuant to the Standard Opening Auction Process.

Example 4

Applying the facts from Example 3 above, but replacing the two additional orders to the Auction Book a buy order for 2,000 shares at $\$34.75$ and a sell order for 500 shares at $\$34.75$. The orders entered to the Auction Book would move the Indicative Price to $\$34.75$ because $\$34.75$ would be the price at which the most shares would match (*i.e.*, 2,000 shares). Given that the Indicative Price ($\$34.75$) is not within the widened Collar Price Range calculated above at 9:30:30 ($\$25.19 \times \30.51), the Opening Auction would not occur after the second collar widening. As such, the System would check at each second starting at 9:30:30 and ending at 9:31:30 for the Indicative Price being within the Collar Price Range. Assuming that the Indicative Price did not change and thus the checks would not find an Indicative Price within the

Collar Price Range, after the check at 9:31:30 the Collar Price Range would again widen in the direction of the Indicative Price by the same 5% amount used for the initial collar widening at 9:30:05 (*i.e.*, $\$1.33$). Therefore, the Collar Price Range would be $\$25.19 \times \31.84 for the period between 9:31:30 and 9:32:30. Again, assuming there is no change to the Indicative Price, at 9:32:30 the Collar Price Range would widen by $\$1.33$ in the direction of the Indicative Price, which would be $\$25.19 \times \33.17 for the period between 9:32:30 and 9:33:30. Again, assuming there is no change to the Indicative Price, at 9:33:30 the Collar Price Range would widen by $\$1.33$ in the direction of the Indicative Price, which would be $\$25.19 \times \34.50 for the period between 9:33:30 and 9:34:30. At this point, the Indicative Price (*i.e.*, $\$34.75$) remains higher than the top end of the Collar Price Range (*i.e.*, $\$34.50$). As such, the Opening Auction would occur at 9:34:30, but would occur within the final Collar Price Range at $\$27.91$, which is the price level tied for the most volume (*i.e.*, 1,500 shares), lowest imbalance (*i.e.*, 500 shares), and closest to the Volume Based Tie Breaker (*i.e.*, the FLSET of $\$26.52$), instead of at the Indicative Price.

As described above, the current functionality described in Example 1 would result in no opening auction because all crossed interest was outside the Collar Price Range set using the FLSET. Examples 2 and 3 demonstrate scenarios in which the proposed functionality of delaying the Opening Auction Process and widening the Collar Price Range would allow participants to execute in an opening auction that would occur at a price more reflective of current market conditions, and that would permit the greatest volume of crossed interest to execute. Alternatively, Example 4 demonstrates that even with the proposed delay and widened Collar Price Range, the Opening Auction may not occur at a price for which any or all crossed interest may execute. The Exchange includes Example 4 in order to illustrate that not all crossed interest in an auction should necessarily be executed and that at some point the benefit of continuing to delay the Opening Auction would be outweighed by the need to establish the BZX Official Opening Price, in particular to ensure that it is reported to the SIP in advance of 9:35 a.m. so that it can be used as the reference price from which the LULD bands are calculated.

Under the proposal, the Opening Auction would be delayed until either (1) the NBBO becomes a Valid NBBO,

³¹ See Exchange Rule 11.9(b)(7).

³² See Exchange Rule 11.23(a)(12).

³³ For purposes of this example, there are no orders on the Continuous Book.

³⁴ For purposes of this example, assume there are no orders on the BZX Continuous Book.

(2) the Indicative Price is within the Collar Price Range (*i.e.*, if the Opening Auction occurred between 9:30:01 and 9:30:05) or within the widened Collar Price Range (*i.e.*, if the Opening Auction occurred between 9:30:06 and 9:34:30), or (3) the delay period of four minutes and 30 seconds lapsed. While the proposal does not guarantee that certain orders priced equally or more aggressive to the Indicative Price will execute in the Opening Auction, it provides for additional time for the market to develop at the beginning of the trading day before conducting the Opening Auction.

2. Statutory Basis

The Exchange believes that the proposed rule change is consistent with Section 6(b) of the Act.³⁵ Specifically, the proposed change is consistent with Section 6(b)(5) of the Act,³⁶ because it would promote just and equitable principles of trade, remove impediments to and perfect the mechanism of a free and open market and a national market system, and, in general, protect investors and the public interest. The Exchange also believes the proposed rule change is consistent with Section 6(b)(1) of the Act, which provides that the Exchange be organized and have the capacity to be able to carry out the purposes of the Act and to enforce compliance by the Exchange's Members and persons associated with its Members with the Act, the rules and regulations thereunder, and the rules of the Exchange.³⁷ Generally, the Exchange believes that the proposed changes will improve the price discovery process in the Opening Auction for securities listed on the Exchange along with additional benefits set forth below.

First, the Exchange believes proposed Rules 11.23(b)(2)(B)(i) and (ii) are consistent with the Act as the proposed paragraphs are substantially similar to existing Rule 11.23(b)(2)(B) and involve no change in the Opening Auction functionality. Second, the Exchange believes proposed Rule 11.23(b)(2)(B)(iii) would promote just and equitable principles of trade, remove impediments to and perfect the mechanism of a free and open market and a national market system and, in general, protect investors and the public interest. The proposal is designed to increase the likelihood that auction eligible orders that are priced equally or more aggressive than the Indicative Value of the security are able to participate in the Opening Auction

instead of being canceled because they are priced outside the Collar Price Range established using the FLSET. As stated above, current Rule 11.23(b)(2)(B) provides that in the event there is no Valid NBBO, the FLSET will be used as the Volume Based Tie Breaker and basis for calculating the Collar Price Range. Because the current Opening Auction process occurs at 9:30:00 a.m., such a Collar Price Range is based on an FLSET that may not have occurred recently or may not otherwise be reflective of current market conditions. As a result, the Exchange has observed instances where auction eligible orders priced equally or more aggressive than the Indicative Price were canceled without execution because they were outside the Collar Price Range established using the FLSET. While these observed instances have been infrequent, the Exchange believes it is important to ensure that the BZX Opening Process is designed to maximize the greatest volume of executions so that the BZX Official Opening Price accurately reflects current market conditions. As a result, the Exchange believes that the proposal would promote just and equitable principles of trade, remove impediments to and perfect the mechanism of a free and open market and a national market system and, in general, protect investors and the public interest. Furthermore, the Exchange believes the proposal strikes a balance of providing additional execution opportunities for auction eligible orders priced equally or more aggressive than the Indicative Price of the security while also limiting any such delay so that the BZX Official Opening Price is reported to the SIP by 9:35 a.m. and is therefore used as the reference price for which the LULD bands are established.

The Exchange notes that the concept of delaying an auction and widening the Collar Price Range as provided in proposed paragraphs 11.23(b)(2)(B)(iii)(b)(1) through (4) is similar to the Twelfth Amendment of the Plan and corresponding amendments by the primary listing exchanges. Specifically, Amendment 12 was created to improve re-openings following a trading pause,³⁸ with an eye towards carefully balancing halt auction price quality and the speed with which continuous trading can be resumed. Amendment 12 provided that auction

³⁸ A "trading pause" refers to a function of the LULD mechanism provided under the Plan. Specifically, the Plan sets for procedures that provide for market-wide LULD requirements that prevent trades in individual NMS stocks from occurring outside of the specified price bands and provides for trading pauses to accommodate more fundamental price moves.

halt periods would be extended if either the auction price at which the most shares would be traded is outside the range of the pre-defined price threshold collars (the "price threshold collars") or there is a market order share imbalance. Further, Amendment 12 provided that the price threshold collars would be widened in the event that the auction's halt period is extended. In its approval of Amendment 12, the Commission stated that it is appropriate in the public interest, for the protection of investors and the maintenance of a fair and orderly market to provide that a trading pause continue until the primary listing exchange has reopened trading using its established reopening procedures, even if such reopening is more than 10 minutes after the beginning of a trading pause, and to require that trading centers may not resume trading in an NMS Stock following a trading pause without price bands in such NMS Stock. The Commission stated that these two provisions together support a more standardized process for reopening trading after a trading pause has been declared.

As a primary listing exchange, the Exchange amended Rule 11.23(d) to incorporate the provisions of Amendment 12.³⁹ Specifically, under Rule 11.23(d)(1)(A) the Quote-Only Period⁴⁰ with respect to a halt auction commences five (5) minutes prior to such halt auction. Adopted Rule 11.23(d)(2)(C) provides for the Quote-Only Period to be extended an additional five (5) minutes should a halt auction be unable to be performed due to Market Order⁴¹ imbalance under 11.23(d)(2)(B)(i)⁴² or if the indicative price, before being adjusted for halt auction collars, is outside the halt

³⁹ See Securities Exchange Act No. 75879 (October 26, 2016) 81 FR 75875 (November 1, 2016) (SR-BatsBZX-2016-61) (Notice of Filing of a Proposed Rule Change To Amend Exchange Rule 11.23, Auctions, To Enhance the Reopening Auction Process Following a Trading Halt Declared Pursuant to the Plan To Address Extraordinary Market Volatility Pursuant to Rule 608 of Regulation NMS). See also Securities Exchange Act No. 79885 (January 26, 2017) 82 FR 8968 (February 1, 2017) (SR-BatsBZX-2016-61) (Order Granting Approval of Proposed Rule Change, as Modified by Amendment No. 1, To Amend Exchange Rule 11.23, Auctions, To Enhance the Reopening Auction Process Following a Trading Halt Declared Pursuant to the Plan To Address Extraordinary Market Volatility Pursuant to Rule 608 of Regulation NMS).

⁴⁰ "Quote-Only Period" is defined as "a designated period of time prior to a halt auction, a Volatility Closing Auction, or an IPO Auction during which Users may submit orders to the Exchange for participation in the auction." See Exchange Rule 11.23(a)(17).

⁴¹ See Rule 11.9(a)(2).

⁴² Under 11.23(d)(2)(B)(i), the Quote-Only Period may be extended where there are unmatched Market Orders on the Auction Book associated with the auction.

³⁵ 15 U.S.C. 78f(b).

³⁶ 15 U.S.C. 78f(b)(5).

³⁷ 15 U.S.C. 78f(b)(1).

auction collars set forth in adopted subparagraphs (i)⁴³ and (ii)⁴⁴ to Exchange Rule 11.23(d)(2)(C) (either, an “Impermissible Price”) (“Initial Extension Period”). Similar to the proposal, Rule 11.23(d)(2)(C)(ii) provides that at the beginning of the Initial Extension Period the upper (lower) halt auction collar shall be increased (decreased) by five (5) percent in the direction of the Impermissible Price, rounded to the nearest minimum price variation. For securities with a halt auction reference price of \$3.00 or less, the halt auction collar shall be increased (decreased) in \$0.15 increments in the direction of the Impermissible Price. At the beginning of each additional extension period, the halt auction collar shall be widened in accordance with this paragraph by the same amount as the Initial Extension Period. In its approval order,⁴⁵ the Commission stated that “extending the Trading Pause and widening the halt auction collar on the side of the Impermissible Price would be a measured approach to provide additional time to attract offsetting interest, to help to address an imbalance that may not be resolved within the prior halt auction collars, and to reduce the potential for triggering another Trading Pause.”

The Exchange notes that the purpose of Amendment 12 and corresponding Exchange amendment was intended to delay a halt auction to attract offsetting interest, while the purpose of this proposal is intended to delay the Opening Auction Process in order to provide the Opening Auction price additional time to reflect current market conditions. Nonetheless, the Exchange believes the purposes of each is designed to balance auction price quality and the speed with which an auction can occur and thus continuous trading can be resumed, in the case of a halt auction, or when the BZX Official Opening Price is determined and reported to the SIP, in the case of an Opening Auction. Therefore, the Exchange believes the proposal is appropriate, in the public interest, for the protection of investors and the maintenance of a fair and orderly market.

The Exchange also believes its proposal to the last two sentences of existing Rule 11.23(b)(2)(B) to paragraphs 11.23(b)(2)(B)(iv) and (v), respectively, will improve clarity and

readability of the rule. Further, the proposal to remove the provision of paragraph 11.23(b)(2)(B)(v) that states the FLSET will be the previous BZX Official Closing Price is consistent with the new proposed functionality, which would allow for an FLSET to occur between 9:30 and 9:34:30.

Finally, the Exchange believes its proposed clarifications to Rules 11.23(b)(1)(A) and (B) to reflect that the Opening Auction may occur at a time other than 9:30 a.m. will allow the Exchange to more easily administer its rules, and Members can more clearly understand how the Opening Auction Process may occur. Specifically, the proposed amendments to Rules 11.23(b)(1)(A) and (B) will add clarity, transparency and internal consistency to Exchange rules making them easier to navigate, in light of the other proposed Rule changes described herein.

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. To the contrary, allowing the Exchange to make the above proposed modifications will allow the Exchange to better compete with other exchanges as a listing venue by improving the Exchange’s auction process by allowing more executions to occur at more reasonable prices that are based on the current value of the security. As mentioned above, the Exchange has received feedback from market participants regarding the issue under the current process, and the proposed amendments will both address this feedback and improve the Exchange’s auction process, allowing it to better compete as both a listing and execution venue.

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

The Exchange neither solicited nor received comments on the proposed rule change.

III. Proceedings To Determine Whether To Approve or Disapprove SR–CboeBZX–2021–086, as Modified by Amendment No. 2, and Grounds for Disapproval Under Consideration

The Commission is instituting proceedings pursuant to Section 19(b)(2)(B) of the Act⁴⁶ to determine whether the proposed rule change, as modified by Amendment No. 2, should

be approved or disapproved. Institution of proceedings is appropriate at this time in view of the legal and policy issues raised by the proposal. Institution of proceedings does not indicate that the Commission has reached any conclusions with respect to any of the issues involved. Rather, as described below, the Commission seeks and encourages interested persons to provide additional comment on the proposed rule change, as modified by Amendment No. 2.

Pursuant to Section 19(b)(2)(B) of the Act,⁴⁷ the Commission is providing notice of the grounds for disapproval under consideration. As described above, the Exchange has proposed to amend the Opening Auction Process Provided Under Rule 11.23(b)(2)(B). In certain cases, the proposed Opening Auction Process would result in a delay in the calculation of the BZX Official Opening Price, which in most cases is the reference price for LULD price bands.

The Commission is instituting proceedings to allow for additional analysis of, and input from commenters with respect to, the consistency of the proposal with Sections 6(b)(5)⁴⁸ and 6(b)(8)⁴⁹ of the Act. Section 6(b)(5) of the Act requires that the rules of a national securities exchange be designed, among other things, 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, and not be designed to permit unfair discrimination between customers, issuers, brokers, or dealers. Section 6(b)(8) of the Act requires that the rules of a national securities exchange not impose any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act.

IV. Procedure: Request for Written Comments

The Commission requests that interested persons provide written submissions of their data, views, and arguments with respect to the issues identified above, as well as any other concerns they may have with the proposal. In particular, the Commission invites the written views of interested persons concerning whether the proposed rule change, as modified by Amendment No. 2, is consistent with Section 6(b)(5), 6(b)(8), or any other provision of the Act, or the rules and

⁴⁷ *Id.*

⁴⁸ 15 U.S.C. 78f(b)(5).

⁴⁹ 15 U.S.C. 78f(b)(8).

⁴³ Rule 11.23(d)(2)(C)(i) provides for the initial halt auction collar calculations.

⁴⁴ Rule 11.23(d)(2)(C)(ii) provides for the widening of the halt auction collars.

⁴⁵ *Supra* note 26.

⁴⁶ 15 U.S.C. 78s(b)(2)(B).

regulations thereunder. Although there do not appear to be any issues relevant to approval or disapproval that would be facilitated by an oral presentation of data, views, and arguments, the Commission will consider, pursuant to Rule 19b-4 under the Act,⁵⁰ any request for an opportunity to make an oral presentation.⁵¹

Interested persons are invited to submit written data, views, and arguments regarding whether the proposed rule change, as modified by Amendment No. 2, should be approved or disapproved by April 29, 2022. Any person who wishes to file a rebuttal to any other person's submission must file that rebuttal May 13, 2022.

The Commission asks that commenters address the sufficiency of the Exchange's statements in support of the proposal, which are set forth in Amendment No. 2, and any other issues raised by the proposed rule change under the Act. In this regard, the Commission seeks commenters' views regarding whether a delay in the calculation of the BZX Official Opening Price would affect the trading of BZX-listed securities on other national securities exchanges or other trading venues or otherwise impact any processes that rely on the calculation of the BZX Official Opening Price, including the calculation and dissemination of LULD price bands.

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 No. SR-CboeBZX-2021-086 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 No. SR-CboeBZX-2021-086. The 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 to 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 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 No. SR-CboeBZX-2021-086 and should be submitted by April 29, 2022. Rebuttal comments should be submitted by May 13, 2022.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.⁵²

J. Matthew DeLesDernier,

Assistant Secretary.

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SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-94594; File No. SR-CBOE-2022-009]

Self-Regulatory Organizations; Cboe Exchange, Inc.; Notice of Filing of a Proposed Rule Change To Amend Rule 4.3.06 To Allow the Exchange To List and Trade Options on the Goldman Sachs Physical Gold ETF

April 4, 2022.

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 March 25, 2022, Cboe Exchange, Inc. (the "Exchange" or "Cboe Options") 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 self-regulatory organization. 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

Cboe Exchange, Inc. (the "Exchange" or "Cboe Options") proposes to amend Rule 4.3.06 to allow the Exchange to list and trade options on the Goldman Sachs Physical Gold ETF ("AAAU"). The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange's website (<http://www.cboe.com/AboutCBOE/CBOELegalRegulatoryHome.aspx>), at the Exchange's Office of the Secretary, 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 amend Rule 4.3.06 to allow the Exchange to list and trade options on the Goldman Sachs Physical Gold ETF ("AAAU" or the "Trust") as a Unit deemed appropriate for options trading on the Exchange. Rule 4.3.06(a) provides that securities deemed appropriate for options trading include Units (also referred to as Exchange-Traded Funds ("ETFs"))³ that represent certain types of interests,⁴ and

³ See Rule 1.1, definition of "Unit and ETF".

⁴ See Rules 4.3.06(a)(1)-(3) and (5), which, respectively, include Units that represent interests in registered investment companies (or series thereof) organized as open-end management investment companies, unit investment trusts or similar entities that hold portfolios of securities

⁵⁰ 17 CFR 240.19b-4.

⁵¹ Section 19(b)(2) of the Act, as amended by the Securities Acts Amendments of 1975, Public Law 94-29 (June 4, 1975), grants to the Commission flexibility to determine what type of proceeding—either oral or notice and opportunity for written comments—is appropriate for consideration of a particular proposal by a self-regulatory organization. See Securities Acts Amendments of 1975, Senate Comm. on Banking, Housing & Urban Affairs, S. Rep. No. 75, 94th Cong., 1st Sess. 30 (1975).

⁵² 17 CFR 200.30-3(a)(12); 17 CFR 200.30-3(a)(57).

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.