investors with additional means of managing their risk exposures and carrying out their investment objectives. Furthermore, the Exchange believes that it has not experienced any adverse market effects with respect to the pilot program, including any adverse market volatility effects that might occur as a result of large FLEX exercises in FLEX Option series that expire near Non-Flex expirations and use a p.m. settlement.

Cboe Options believes that the restriction actually places the Exchange at a competitive disadvantage to its OTC counterparts in the market for customized options, and unnecessarily limits market participants’ ability to trade in an exchange environment that offers the added benefits of transparency, price discovery, liquidity, and financial stability. Therefore, the Exchange does not believe that the proposed rule change will impose any burden on competition.

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. 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 effective pursuant to Section 19(b)(3)(A) of the Act, the Exchange discharges the proposed rule change to be operative upon filing.25

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–CBOE–2021–031 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–CBOE–2021–031. 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 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–CBOE–2021–031, and should be submitted on or before June 1, 2021.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.26

J. Matthew DeLesDernier, Assistant Secretary.

[FR Doc. 2021–09890 Filed 5–10–21; 8:45 am]
Index” or “VOLQ”). The proposed rule change was published for comment in the Federal Register on September 8, 2020. On October 20, 2020, pursuant to Section 19(b)(2) of the Act, 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. On December 4, 2020, the Commission instituted proceedings under Section 19(b)(2)(B) of the Act to determine whether to approve or disapprove the proposed rule change. On March 4, 2021, the Commission designated a longer period for Commission action on the proposed rule change. On March 11, 2021, the Exchange filed Amendment No. 1 to the proposed rule change, which replaced and superseded the proposed rule change. On April 19, 2021, the Exchange filed partial Amendment No. 2 to the proposed rule change.

The Commission is publishing this notice to solicit comments on Amendment Nos. 1 and 2 from interested persons, and is approving the proposed rule change, as modified by Amendment Nos. 1 and 2, on an accelerated basis.

II. Description of the Proposed Rule Change, as Modified by Amendment Nos. 1 and 2

The Exchange proposes to list and trade options on VOLQ, a new index that measures changes in 30-day implied volatility of the Nasdaq-100 Index (“Nasdaq-100 Index” or “NDX”). As proposed, options on VOLQ will be cash-settled and will have European-style exercise provisions. The Exchange states that the Volatility Index will measure “at-the-money” volatility by using published real-time bid/ask quotes of NDX options and will be disseminated in annualized percentage points.

The Exchange proposes to list up to six weekly expirations and up to 12 standard (monthly) expirations in Volatility Index options. The six weekly expirations will be for the nearest weekly expirations from the actual listing date, and the weekly expirations will not expire in the same week in which standard (monthly) Volatility Index options expire. Standard (monthly) expirations in the Volatility Index options will not be counted as part of the maximum six weekly expirations permitted for Volatility Index options. In addition, the Exchange proposes that long term option series having up to sixty months to expiration may be listed and traded.

Volatility Index Design and Composition

The Exchange states that the Volatility Index reflects changes in 30-day implied volatility, which measures the magnitude of changes of the underlying broad-based securities index, NDX. According to the Exchange, the Volatility Index measures the expectation for market volatility over the next thirty calendar days as expressed by option NDX. The Exchange explains that the Volatility Index uses the bid and offer prices of certain listed options on NDX to obtain the prices of synthetic precisely at-the-money options, which are then used to calculate 30-day closed-form implied volatility. Finally, the 30-day closed-form implied volatility is multiplied by 100 to calculate the Volatility Index level. The Volatility Index is quoted in annualized percentage points.

The Exchange believes that the proposed product does not have single or aggregated component concentration risk. The Exchange states that the methodology caps each single component as well as the top five weighted components. The Exchange further states that no component security of the Volatility Index comprises more than 12.50% of the index’s weighting and that the five highest weighted component securities of the Volatility Index in the aggregate do not comprise more than 43.75% of the index’s weighting.

Index Calculation and Maintenance

The Exchange states that the level of the Volatility Index will reflect the current 30-day implied volatility of NDX and will be updated on a real-time basis on each trading day beginning at 9:30 a.m. and ending at 4:00 p.m. ET. If the current published value of a component is not available, the last published value will be used in the calculation. Values of the Volatility Index will be disseminated via the Nasdaq GIDS market data system every fifteen seconds during the Exchange’s regular trading hours to market information vendors such as Bloomberg and Thomson Reuters. In the event the Volatility Index ceases to be maintained or calculated the Exchange will not list any additional series for trading and will limit all transactions in such options to closing transactions only for the purpose of maintaining a fair and orderly market and protecting investors.

Exercise and Settlement Value

The exercise settlement value calculation used for Volatility Index option settlement will be calculated on the Volatility Index Options expiration date, the specific date (usually a Wednesday) identified in the option symbol for the series. If that Wednesday or the Friday that is thirty days following that Wednesday is an Exchange holiday, the exercise settlement value will be calculated on the business day immediately preceding that Wednesday. The last trading day for a Volatility Index option will be the business day immediately preceding the expiration date. When the last trading day is moved because of an Exchange holiday, the last trading day for an expiring Volatility Index option contract will be the day immediately preceding the last regularly scheduled business day.

Monthly options on the Volatility Index will expire on the Wednesday that is thirty days prior to the third Friday of the following the expiration month. Trading in expiring options on
the Volatility Index will normally cease at 4:00 p.m. ET on the Tuesday preceding an expiration Wednesday.

Final Settlement

The Exchange states that the final settlement price (Ticker Symbol: VOL$) will be calculated as described below on Wednesday commencing at 9:32:000 a.m. ET on the expiration day, and continuing each second for the next 300 seconds (“Closing Settlement Period”). The exercise settlement amount will be equal to the difference between the final settlement price and the exercise price of the option, multiplied by $100. Exercise will result in the delivery of cash on the business day following expiration.

The Volatility Index’s component NDX options are listed on Phlx as well as on ISE and GEMX. The settlement value for the Volatility Index options will be the Closing Volume Weighted Average Price, to be determined by reference to the prices and sizes of executed orders or quotes in the thirty-two underlying NDX component options on the Phlx, ISE, and GEMX markets calculated near the opening of trading on the expiration date. The Exchange will observe the number of contracts resulting from orders and quotes of the then-current NDX component options executed on Phlx, ISE, and GEMX at each price during individual one-second intervals of the Closing Settlement Period on the expiration day. If no transactions occur on Phlx, ISE, or GEMX in an NDX component option during any one-second observation period, the NBBO midpoint of each of the NDX component options for which a transaction has not occurred at the end of the one-second observation period will be considered the One Second VWAP for that observation period for purposes of the settlement methodology. The NBBO midpoint will be the midpoint of the best bid and best offer from Phlx, ISE, and GEMX. Each One Second VWAP for each component option is then used to calculate the Volatility Index, resulting in the calculation of 300 sequential Volatility Index values. Finally, the Exchange states that all 300 Volatility Index values will be arithmetically averaged (i.e., the sum of 300 Volatility Index calculations is divided by 300) and the resulting figure is rounded to the nearest .01 to arrive at the settlement value.

The proposed options on the Volatility Index are European-style and cash-settled. The Exchange states that the trading hours for Volatility Index options will be 9:30 a.m. to 4:00 p.m. ET. The Exchange proposes to apply margin requirements for the purchase and sale of options on the Volatility Index that are identical to those applied for its other broad-based index options.

The Exchange states that trading of options on the Volatility Index will be subject to the trading halt procedures applicable to other index options traded on the Exchange. Options on the Volatility Index will be quoted and traded in U.S. dollars. Accordingly, the Exchange believes that all Exchange and The Options Clearing Corporation members will be able to accommodate trading, clearance, and settlement of the Volatility Index without alteration. All options on the Volatility Index will have a minimum increment of $0.05 for options trading below $3.00 and $0.10 for all other series.

The Exchange proposes to set the minimum strike price interval for options on the Volatility Index at $0.50 or greater where the strike price is less than $75, $1 or greater where the strike price is $200 or less, and $5 or greater where the strike price is more than $200. The Exchange proposes that there shall be no position or exercise limits for options on the Volatility Index and that trading of options on the Volatility Index will be subject to the same rules that presently govern the trading of Exchange index options, including sales practice rules, margin requirements, and trading rules.

The Exchange believes that it is unlikely that the Volatility Index settlement value could be manipulated because the likelihood of gaming the components over a 300-second period is extremely low. The Exchange states that because the 32 component option inputs are determined each second (meaning that Volatility Index components could change 300 times during the settlement period), market participants would have to predict market moves over the full settlement period in order to manipulate the settlement value. Additionally, the Exchange believes that traders are subject to highly competitive market forces of deep and established market liquidity. For example, the Exchange notes that during each second of the final settlement observation period on January 16, 2019 and February 13, 2019, the average notional value of each bid of the thirty-two components was $21.1 million; the average notional value of each offer was $13.5 million. Finally, the Exchange states that since the Volatility Index assesses each second of all listed NDX options, this is a continuous assessment of competitive price action and voluminous trading activity for all Nasdaq-100 Index stock components. In support, the Exchange notes that during the final settlement observation period (five-minute period) on January 16, 2019 and February 13, 2019, the average summation of traded volume for all Nasdaq-100 Index component shares was 18.8 million shares. The Exchange states that the average total value of all Nasdaq-100 Index shares traded during the final settlement observation period was $1.93 billion and the corresponding market capitalization for all Nasdaq-100 Index components during the final settlement period was $7.8 trillion.

The Exchange represents that it has an adequate surveillance program in place for options traded on the Volatility Index and intends to apply those same program procedures that it applies to the Exchange’s other options products. Additionally, the Exchange states that it is a member of the Intermarket Surveillance Group, through which it can coordinate surveillance and investigative information sharing in the stock and options markets with all of the U.S. registered stock and options markets. Phlx believes that its surveillance procedures currently in place, coupled with additional surveillance measures, will allow it to adequately surveil for any potential manipulation in the trading of Volatility Index options. The Exchange states it will monitor the integrity of the Volatility Index by analyzing trades, quotations, and orders that affect any of the 300 calculated reference prices for any of the NDX option series used for the final settlement calculation for potential manipulation. In particular, the Exchange states it will: (i) Monitor all NDX NBBO quotes and trades, (ii) surveil for open interest manipulation by monitoring VOLQ and NDX trading volume prior to settlement; (iii) monitor trading on Phlx, ISE, and GEMX after the Closing Settlement Period for possible wash trading, pre-arranged, or related artificial activity; and (iv) compare quotes for settlement against quotes for non-settlement in the 32 NDX option series used for settlement between the opening and a period of time thereafter, with a focus on identifying deviations of the midpoint, the bid-ask spread, and other

Contract Specifications

The Exchange represents that it has an adequate surveillance program in place for options traded on the Volatility Index and intends to apply those same program procedures that it applies to the Exchange’s other options products. Additionally, the Exchange states that it is a member of the Intermarket Surveillance Group, through which it can coordinate surveillance and investigative information sharing in the stock and options markets with all of the U.S. registered stock and options markets. Phlx believes that its surveillance procedures currently in place, coupled with additional surveillance measures, will allow it to adequately surveil for any potential manipulation in the trading of Volatility Index options. The Exchange states it will monitor the integrity of the Volatility Index by analyzing trades, quotations, and orders that affect any of the 300 calculated reference prices for any of the NDX option series used for the final settlement calculation for potential manipulation. In particular, the Exchange states it will: (i) Monitor all NDX NBBO quotes and trades, (ii) surveil for open interest manipulation by monitoring VOLQ and NDX trading volume prior to settlement; (iii) monitor trading on Phlx, ISE, and GEMX after the Closing Settlement Period for possible wash trading, pre-arranged, or related artificial activity; and (iv) compare quotes for settlement against quotes for non-settlement in the 32 NDX option series used for settlement between the opening and a period of time thereafter, with a focus on identifying deviations of the midpoint, the bid-ask spread, and other

12 The Exchange calculates a volume weighted average price for each one-second observation period (a “One Second VWAP”) for each component option.
market elements compared to the Nasdaq-100 Index value. The Exchange also represents that it has the necessary system capacity to support additional quotations and messages that will result from the listing and trading of options on the Volatility Index.

The Exchange committed to providing the Commission an annual report each year for 5 years on the anniversary of the first day of trading of VOLQ options. The annual report shall consist of twelve monthly data files, one for each month, with settlement information from the prior year which contains: (1) One-second NBBO (bid price, bid size, offer price, offer size, exchange code for bid and offer, time stamp and timestamp reference) and Options Price Reporting Authority trade data (trade price, volume, exchange code, trade indicator, exchange code) for the VOLS NDX component options from 9:30:00 a.m. ET to 9:45:00 a.m. ET; (2) all VOLS one-second index values (over the final settlement window between 9:32:01 a.m. ET and 9:37:00 a.m. ET) used in deriving the final settlement value for Nasdaq-100 Volatility Index futures contracts; and (3) expiring VOLQ options open interest.

III. Discussion and Commission Findings

After careful review of the proposed rule change, as modified by Amendment Nos. 1 and 2, as well as comment received, the Commission finds that the proposed rule change, as modified by Amendment Nos. 1 and 2, is consistent with the Act and the rules and regulations thereunder applicable to a national securities exchange. In particular, the Commission finds that the proposed rule change, as modified by Amendment Nos. 1 and 2, is consistent with Section 6(b)(5) of the Act, which requires, among other things, that the Exchange’s rules be designed to prevent fraudulent and manipulative acts and practices, 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.

In support of its proposal, the Exchange states that the Volatility Index final settlement has exceedingly high hurdles for potential manipulation. First, the Exchange believes that market participants cannot predict which components will be included in the final settlement. Second, the Exchange believes that traders are subject to competitive market forces of deep and established market liquidity. In addition, the Exchange amended its proposal to incorporate all trades in the component options into the settlement calculation, rather than only trades occurring on the Exchange, and to specify that legs of complex order transactions would only be included in the calculation if they were at or within the NBBO. The Exchange also committed to provide five years of monthly settlement data on an annual basis.

The Exchange also states that the proposal will facilitate the listing and trading of an index option product with a novel structure, which would enhance competition among market participants. A commenter, who states it is the provider of the VOLQ methodology, also expressed support for the proposal. The commenter states that VOLQ is a response to requests from market participants and that competition and innovation generated by VOLQ are in the public interest and will benefit investors. The Commission believes that the Exchange’s proposal, including the settlement methodology, as amended, in conjunction with the Exchange’s existing and additional proposed surveillance procedures, will help to ensure that the settlement value is not readily susceptible to manipulation. The amended settlement methodology incorporates additional trade information by including transactions on all markets trading the component NDX options while ensuring that individual leg executions of complex orders that may have traded through the NBBO are not included in the settlement calculation. The Commission believes this will contribute to a more robust settlement methodology. The Volatility Index and the settlement value are calculated based on quotes, orders, or trades in the component NDX options and the settlement value calculation relies on 32 unique inputs each second over 300 seconds. The 32 component NDX options that are the basis of such inputs may change every second over the settlement window depending on the value of the Nasdaq-100 Index. The Exchange states that it will monitor for any potential manipulation of the Volatility Index settlement value in the normal course of its surveillance. Additionally, the Exchange has proposed enhanced surveillance procedures to further analyze trades, quotations, and orders that affect any of the 300 calculated reference prices for any NDX option series used for the final settlement calculation. The Commission believes the Exchange’s existing and additional surveillance procedures will allow the Exchange to monitor for anomalous trades, quotations, and orders that may be indicative of manipulative trading or quoting activity. The Commission finds that the Exchange’s proposal regarding surveillance of options on the Volatility Index and the component option series will allow it to adequately surveil for any potential manipulation in the trading of VOLQ. Therefore, the Commission finds the settlement design, as amended, when combined with the Exchange’s existing and proposed enhanced surveillance procedures, will prevent fraudulent and manipulative acts and practices and protect investors and the public interest.

The Commission believes that the Exchange’s proposal to impose no position limits on the Volatility Index options is appropriate and consistent with the Act. As stated above, the Volatility Index will settle using published volume and/or quotes from NDX options. Given that there are currently no position limits for NDX options, the Commission believes it is appropriate for there to be no position or exercise limits for options on the Volatility Index since the potential manipulation and potential market disruption concerns that position limits are designed to address are mitigated in the case of this product. According to the Exchange, the market capitalization of the NDX was approximately $11.42 trillion and contained approximately 74.7 billion common shares as of June 30, 2020. The Commission believes that the enormous market capitalization of NDX and the deep, liquid market for the underlying component securities significantly reduce concerns regarding market manipulation or disruption in the underlying market. Similar
reasoning would apply to options on the Volatility Index since the value of options on the Volatility Index is derived from the volatility of NDX, as implied by its options. Moreover, the Commission believes that having no position limits for the proposed Volatility Index options may benefit investors by bringing additional depth and liquidity to these Volatility Index options without raising significant concerns about potential manipulation or potential market disruption.

The Commission believes that the proposed strike price intervals and minimum trading increments for options on the Volatility Index are appropriate and consistent with the Act. These aspects of the proposal will provide investors with added flexibility in the trading of these options and will further the public interest by allowing investors to establish positions that are better tailored to meet their investment objectives. In addition, the Exchange states it has the necessary system capacity to support additional quotations and messages that will result from the listing and trading of options on the Volatility Index.

As a national securities exchange, the Exchange is required, under Section 6(b)(1) of the Act, to enforce compliance by its members and persons associated with its members with the provisions of the Act, Commission rules and regulations thereunder, and its own rules. In this regard, the Exchange states that trading of options on the Volatility Index will be subject to the same rules that currently govern the trading of other index options on the Exchange. The Commission believes that it is consistent with the Act to apply Exchange rules governing, among other things, margin requirements and trading halt procedures to the proposed Volatility Index options that are otherwise applicable to options on broad-based indexes. The Commission believes that the Exchange’s rules relating to trading of the options on the Volatility Index on the Exchange are designed to prevent fraudulent and manipulative acts and practices, 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.

Accordingly, the Commission finds that the proposed rule change, as modified by Amendment Nos. 1 and 2, is consistent with Section 6(b)(5) of the Act and the rules and regulations thereunder applicable to a national securities exchange.

IV. Solicitation of Comments on Amendment Nos. 1 and 2 to the Proposed Rule Change

Interested persons are invited to submit written views, data, and arguments concerning whether Amendment Nos. 1 and 2 are 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–Phlx–2020–41 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–Phlx–2020–41. 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 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–Phlx–2020–41 and should be submitted on or before June 1, 2021.

V. Accelerated Approval of the Proposed Rule Change, as Modified by Amendment Nos. 1 and 2

The Commission finds good cause to approve the proposed rule change, as modified by Amendment Nos. 1 and 2, prior to the thirtieth day after the date of publication of notice of the filing of Amendment Nos. 1 and 2 in the Federal Register. In Amendment No. 1, among other things, the Exchange modifies certain aspects of the proposal, including changes to the settlement methodology that incorporate additional pricing information, and commits to provide the Commission with annual settlement data for five years. In Amendment No. 2, the Exchange removes the word “non-public” from the description of the annual settlement data it will provide to the Commission. The changes to the proposal and additional information in Amendment Nos. 1 and 2 assist the Commission in evaluating the Exchange’s proposal and in determining that it is consistent with the Act. Accordingly, the Commission finds good cause, pursuant to Section 19(b)(2) of the Act, to approve the proposed rule change, as modified by Amendment Nos. 1 and 2, on an accelerated basis.

VI. Conclusion

It is therefore ordered, pursuant to Section 19(b)(2) of the Act, that the proposed rule change (SR–Phlx–2020–41), as modified by Amendment Nos. 1 and 2, be, and hereby is, approved on an accelerated basis.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.26

J. Matthew DeLesDernier,
Assistant Secretary.

[FR Doc. 2021–09889 Filed 5–10–21; 8:45 am]

BILLING CODE 8011–01–P

22 See supra note 9.
23 See supra note 10.
25 Id.