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

The proposed change would allow the Exchange to provide Participants with certain information. As discussed above, the proposed change aligns the rules of the Exchange with the floor procedures and rules of other options exchanges and will allow the Exchange to compete with these other options exchanges. The Exchange believes it will help Participants at the Exchange to compete for executions against market participants at other exchanges by providing an additional tool to the Participants on BOX. This, in turn, helps the Exchange compete against other exchanges in a deeply competitive landscape. As such, 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.

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

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

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

Within 45 days of the date of publication of this notice in the Federal Register or within such longer period up to 90 days (i) as the Commission may designate if it finds such longer period to be appropriate and publishes its reasons for so finding or (ii) as to which the self-regulatory organization consents, the Commission will:

(A) By order approve or disapprove the proposed rule change, or

(B) institute proceedings to determine whether the proposed rule change should be 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–BOX–2018–18 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–BOX–2018–18. 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–BOX–2018–18 and should be submitted on or before June 21, 2018.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.16

Eduardo A. Aleman,
Assistant Secretary.

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BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE
COMMISSION


Self-Regulatory Organizations: The Options Clearing Corporation; Order Approving Proposed Rule Change Related to The Options Clearing Corporation’s Margin Methodology

May 24, 2018.

I. Introduction

On November 13, 2017, The Options Clearing Corporation (“OCC”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change SR–OCC–2017–022 (“Proposed Rule Change”) pursuant to Section 19(b) of the Securities Exchange Act of 1934 (“Act”).1 and Rule 19b–4 2 thereunder to propose several enhancements to OCC’s margin methodology, the System for Theoretical Analysis and Numerical Simulations (“STANS”). OCC’s proprietary risk management system that calculates clearing member margin requirements.3 The proposed changes would modify OCC’s margin methodology to: (1) Obtain daily price data for equity products (including daily corporate action-adjusted returns of equities where prices and thus returns of securities are adjusted for any dividends issued, stock splits, etc.) for use in the daily estimation of econometric model parameters; (2) enhance its econometric model for updating statistical parameters (e.g., parameters concerning correlations or volatility) for all risk factors that reflect the most recent data obtained; (3) improve the sensitivity and stability of correlation estimates across risk factors by using de-volatized returns (but using a 500 day look back period); and (4) improve OCC’s methodology related to the treatment of defaulting securities that do not have enough historical data for calibration as “defaulting securities.” See Notice infra note 7, at 82 FR at 61355.

See Notice infra note 7, at 82 FR 57306.
De-volatization is a process of normalizing historical data with the associated volatility thus facilitating comparison between different sets of data.
Within the context of OCC’s margin system, securities that do not have enough historical data for calibration are classified as “defaulting securities.” See Notice infra note 15, 82 FR at 61355.
See Notice infra note 7, at 82 FR 61354.

The Commission has received comment letters from the Stock Exchange. These comments were submitted by the Exchange between the publication of this notice on December 4, 2017, and March 22, 2018.

The Exchange has neither solicited nor received comments on the proposed rule change.
day time horizon and an add-on margin charge for model risk (the concentration/dependence stress test charge). The STANS methodology is used to measure the exposure of portfolios of options and futures cleared by OCC and cash instruments in margin collateral. A “risk factor” within OCC’s margin system may be defined as a product or attribute whose historical data are used to estimate and simulate the risk for an associated product. The majority of risk factors utilized in the STANS methodology are total returns on individual equity securities. Other risk factors considered include: Returns on equity indexes; returns on implied volatility risk factors that are a set of nine chosen volatility pivots per product; changes in foreign exchange rates; securities underlying equity-based products; and changes in model parameters that sufficiently capture the model dynamics from a larger set of data.

Under OCC’s current margin methodology, OCC obtains monthly price data for most of its equity-based products from a third-party vendor. This data arrive around the second week of every month in arrears and require approximately four weeks for OCC to process prior to installing into OCC’s margin system. As a result, correlations and statistical parameters for risk factors at any point in time represent stale data and therefore may not be representative of the most recent market data. In the absence of daily updates, OCC employs an approach where one or more identified market proxies (or “scale-factors”) are used to incorporate day-to-day market volatility across all associated asset classes throughout. The scale-factor approach, however, assumes a perfect correlation of the volatilities between the security and its scale-factor, which gives little room to capture the idiosyncratic risk of a given security and is different from the broad market risk represented by the scale-factor.

In addition, OCC imposes a floor on volatility estimates for its equity-based products using a 500-day look back period. OCC believes that using monthly price data, coupled with the dependency of margins on scale-factors and the volatility floor can result in imprecise changes in margins charged to clearing members, specifically across periods of heavy volatility when the correlation between the risk factor and a scale-factor fluctuates.

Finally, under OCC’s existing margin methodology, theoretical price scenarios for “defaulting securities” are simulated using uncorrelated return scenarios with an average zero return and a pre-specified volatility called “default variance.” The default variance is estimated as the average of the top 25 percent quantile of the conditional variances of all securities. As a result, OCC believes that these default estimates may be impacted by extremely illiquid securities with discontinuous data. In addition, OCC believes that the default variance (and the associated scale-factors used to scale up volatility) is also subject to sudden jumps across successive months because it is derived from monthly data updates, as opposed to daily updates, which are prone to wider fluctuations and are subject to adjustments using scale-factors.

B. Description of the Proposal in the Proposed Rule Change

The Proposed Rule Change proposes changes to STANS. More specifically,
OCC proposes to: (1) Obtain daily price data for equity products (including daily corporate action-adjusted returns of equities where price and thus returns of securities are adjusted for any dividends issued, stock splits, etc.) for use in the daily estimation of econometric model parameters; (2) enhance its econometric model for updating statistical parameters (e.g., parameters concerning correlations or volatility) for all risk factors that reflect the most recent data obtained; (3) improve the sensitivity and stability of correlation estimates across risk factors by using de-volatilized returns (but using a 300 day look back period); and (4) improve OCC’s methodology related to the treatment of defaulting securities that would result in stable and realistic risk estimates for such securities.

As a general matter, OCC believes that introducing daily updates for price data would result in more accurate margin requirements that are based off of the most recent market data. OCC also believes that the other model enhancements would, among other things, improve OCC’s approach to estimating covariance and correlations between risk factors in an effort to achieve more accurate and timely correlation estimations. OCC further represents that the proposed changes would improve OCC’s methodology related to the treatment of defaulting securities by reducing the impact that illiquid securities with discontinuous price data have on default variance estimates. Each of these proposals is discussed in more detail below.

1. Daily Updates of Price Data

OCC proposes to introduce daily updates for price data for equity products, including daily corporate action-adjusted returns of equities, Exchange Traded Funds (“ETFs”), Exchange Traded Notes (“ETNs”) and certain indexes. OCC believes that the proposed change would help ensure that OCC’s margin methodology is reliant on data that is more representative of current market conditions, thereby resulting in more accurate and responsive margin requirements. In addition, OCC believes that the introduction of daily price updates would enable OCC’s margin methodology to better capture both market and idiosyncratic risk by allowing for daily updates to the parameters associated with the econometric model (discussed below) that captures the risk associated with a particular product, and therefore help ensure that OCC’s margin requirements are based on more current market conditions. As a result, OCC would also reduce its reliance on the use of scale-factors to incorporate day-to-day market volatility, which OCC believes give little room to capture the idiosyncratic risk of a given security and is different from the broad market risk represented by the scale-factor.

2. Proposed Enhancements to the Econometric Model

In addition to introducing daily updates for price and corporate action-adjusted returns data, OCC proposes to make enhancements to its econometric model for calculating statistical parameters for all qualifying risk factors that reflect the most recent data obtained (e.g., OCC would be able to calculate parameters such as volatility and correlations on a daily basis using the new daily price data discussed above). More specifically, OCC proposes to enhance its econometric model by: (i) Introducing daily updates for statistical parameters; (ii) introducing features in its econometric model that are designed to take into account asymmetry in the model used to forecast volatility associated with a risk factor; (iii) modifying the statistical distribution used to model the returns of equity prices; (iv) introducing a second-day forecast for volatility into the model to estimate the two-day scenario distributions for risk factors; and (v) imposing a floor on volatility estimates using a 10-year look back period. These proposed model enhancements are described in detail below.

i. Daily Updates for Statistical Parameters

Under the proposal, the statistical parameters for the model would be updated on a daily basis using the new daily price data obtained by OCC from a reliable third-party (as described above). As a result, OCC would no longer need to rely on scale-factors to approximate day-to-day market volatility for equity-based products. OCC believes that calibrating statistical parameters on a daily basis would allow OCC to calculate more accurate margin requirements that represent the most recent market data.

ii. Proposed Enhancements To Capture Asymmetry in Conditional Variance

The current approach for forecasting the conditional variance for a given risk factor does not consider the asymmetric volatility phenomenon observed in financial markets (also called the “leverage effect”) where volatility is more accurate and timely and reactive to market downturns. Under the proposal, OCC would amend its econometric model to include new features (i.e., incorporating asymmetry into its forecast volatility) designed to allow the conditional volatility forecast to be more accurate and timely to market downturns and thereby capture the most significant dynamics of the relationship between price and volatility observed in financial markets. OCC believes the proposed enhancement would result in more accurate and responsive margin requirements, particularly in market downturns.

iii. Proposed Change in Statistical Distribution

OCC also proposes to change the statistical distribution used to model the returns of equity prices. OCC’s current methodology uses a fat tailed distribution (the Student’s t-distribution) to model returns; however, price scenarios generated using very large log-return scenarios (positive) that follow this distribution can approach infinity and could potentially result in excessively large price jumps, a known limitation of this distribution. Under the proposal, OCC would adopt a more defined distribution (Standardized Normal
Reciprocal Inverse Gaussian (NIG) for modeling returns, which OCC believes would more appropriately simulate future returns based on the historical price data for the products in question and allow for more appropriate modeling of fat tails. As a result, OCC believes that the proposed change would lead to more consistent treatment of log returns both on the upside as well as downside of the distribution.

iv. Second Day Volatility Forecast

OCC further proposes to introduce a second-day forecast for volatility into the econometric model to estimate the two-day scenario distributions for risk factors. Under the current methodology, OCC typically uses a two-day horizon to determine its risk exposure to a given portfolio. This is done by simulating 10,000 theoretical price scenarios for the two-day horizon using a one-day forecast conditional variance, and the value at risk and expected shortfall components of the margin requirement are then determined from the simulated profit/loss distributions. These one-day and two-day returns scenarios are both simulated using the one-day forecast conditional variance estimate. OCC believes that this could lead to a risk factor’s coverage differing substantially on volatile trading days. As a result, OCC proposes to introduce a second-day forecast variance for all equity-based risk factors. The second-day conditional variance forecast would be estimated for each of the 10,000 Monte Carlo returns scenarios, resulting in more accurately estimated two-day scenario distributions, and therefore more accurate and responsive margin requirements.

v. Anti-Procyclical Floor for Volatility Estimates

In addition, OCC proposes to modify its floor for volatility estimates. OCC currently imposes a floor on volatility estimates for its equity-based products using a 500-day look back period. Under the proposal, OCC would extend this look back period to 10 years (2520 days) in the enhanced model and apply this floor to volatility estimates for other products (excluding implied volatility risk factor scenarios). OCC believes that using a longer 10-year look back period will help ensure that OCC captures sufficient historical events/market shocks in the calculation of its anti-procyclical floor.

3. Proposed Enhancements to Correlation Estimates

As described above, OCC’s current methodology for estimating covariance and correlations between risk factors relies on the same monthly price data feeding the econometric model, resulting in a similar lag time between updates. In addition, correlation estimates are based off historical returns series, with estimates between a pair of risk factors being highly sensitive to the volatility of either risk factor in the chosen pair. The current approach therefore results in correlation estimates being sensitive to volatile historical data. In order to address these limitations, OCC proposes to enhance its methodology for calculating correlation estimates by moving to a daily process for updating correlations (with a minimum of one week’s lag) to help ensure clearing member account margins are more current and thus more accurate. Moreover, OCC proposes to enhance its approach to modeling correlation estimates by de-volatizing the returns series to estimate the correlations. Under the proposed approach, OCC would first consider the returns excess of the mean (i.e., the average estimated from historical data sample) and then further scale them by the corresponding estimated conditional variances. OCC believes that using de-volatized returns would lead to normalizing returns across a variety of asset classes and make the correlation estimator less sensitive to sudden market jumps and therefore more stable.

4. Defaulting Securities Methodology

Under the proposal, OCC would enhance its methodology for estimating the defaulting variance in its model. OCC’s margin system is dependent on market data to determine clearing member margin requirements. Securities that do not have enough historical data are classified as “defaulting securities” within OCC systems. As noted above, within current STANS systems, the theoretical price scenarios for defaulting securities are simulated using uncorrelated return scenarios with a zero mean and a default variance, with the default variance being estimated as the average of the top 25 percent quantile of the conditional variances of all securities. As a result, these default estimates may be impacted by extremely illiquid securities with discontinuous data. In addition, the default variance (and the associated scale-factors used to scale up volatility) is also subject to sudden jumps across volatile months. To mitigate these concerns, OCC proposes to: (i) Use only optionable equity securities to estimate the defaulting variance; (ii) use a shorter time series to enable calibration of the model for all securities; and (iii) simulate default correlations with the driver Russell 2000 index (“RUT”).

i. Proposed Modifications to Securities and Quantile Used in Estimation

Under the proposal, only optionable equity securities, which are typically more liquid, would be considered while estimating the default variance. This limitation would eliminate from the estimation almost all illiquid securities with discontinuous data that could contribute to high conditional variance estimates and thus a high default variance. In addition, OCC proposes to estimate the default variance as the lowest estimate of the top 10% of the floored conditional variance across the risk factors. OCC believes that this change in methodology would help ensure that while the estimate is aggressive it is also robust to the presence of outliers caused by a few extremely volatile securities that influence the location parameter of a distribution. Moreover, as a consequence of the daily updates described above, the default variances would change daily and there would be no scale-factor to amplify the effect of the variance on risk factor coverage.
ii. Proposed Change in Time Series

Under the proposal, OCC would use a shorter time series to enable calibration of the model for all securities.82 Currently, OCC does not calibrate parameters for defaulting securities that have historical data of less than two years.83 OCC proposes to shorten this time period to approximately 6 months (180 days) to enable calibration of the model for all securities within OCC systems.84 OCC believes that this shorter time series is sufficient to produce stable calibrated parameters.85

iii. Proposed Default Correlation

Under the proposal, returns scenarios for defaulting securities86 would be simulated using a default correlation with the driver RUT.87 The default correlation of the RUT index is roughly equal to the median of all positively correlated securities with the index.88 Since 90% of the risk factors in OCC systems correlate positively to the RUT index, OCC would only consider those risk factors to determine the median.89 OCC believes that the median of the correlation distribution has been steady over a number of simulations and is therefore proposing that it replace the current methodology of simulating uncorrelated scenarios, which OCC believes is not a realistic approach.90

III. Discussion and Commission Findings

Section 19(b)(2)(C) of the Act directs the Commission to approve a proposed rule change of a self-regulatory organization if it finds that such proposed rule change is consistent with the requirements of the Act and the rules and regulations thereunder applicable to such organization.91 After carefully considering the Proposed Rule Change, the Commission finds the proposal is consistent with the requirements of the Act and the rules and regulations thereunder applicable to OCC. More specifically, the Commission finds that the Proposed Rule Change is consistent with Section 17A(b)(3)(F) of the Act92 and Rules 17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv)93 thereunder.

A. Consistency With Section 17A(b)(3)(F) of the Act

Section 17A(b)(3)(F) of the Act requires that the rules of a clearing agency be designed to, among other things, promote the prompt and accurate clearance and settlement of securities transactions, assure the safeguarding of securities and funds which are in the custody or control of the clearing agency or for which it is responsible, and, in general, to protect investors and the public interest.94 Based on its review of the record, the Commission believes that proposed changes enhance OCC's clearing sure and control, and, therefore, in general, to protect investors and the public interest by enhancing OCC's margin methodology for the reasons set forth below.

First, as noted above, the STANS methodology is used to measure the exposure of portfolios of options and futures cleared by OCC and cash instruments in margin collateral on behalf of its clearing members, which allows OCC to calculate its clearing members' margin requirements. Currently, STANS makes these calculation based on monthly price data obtained from a third-party vendor. To make the calculations more accurate and representative of recent market data, OCC proposes to amend its margin methodology to require the use of daily updates for equity price data instead of monthly updates, thereby reducing OCC's reliance on scale-factors.95 The Commission believes that the change from monthly price data updates to daily price data updates would result in more accurate and timely estimations of OCC's clearing members' margin requirements.

Second, the proposal to amend OCC's margin methodology to require the use of daily updates for price data would allow for updates to the margin model's statistical parameters on a daily, instead of monthly, basis.96 Similarly, the proposal would also amend STANS to introduce other features that would improve the accuracy of its models and, consequently, produce risk exposure and margin requirement calculations that better reflect current market conditions. For example, the proposal would: (i) Amend STANS to account for the asymmetric volatility phenomenon observed in financial markets and allow for the conditional volatility forecast to be more accurate and timely to market downturns;97 (ii) amend the statistical distribution for modeling equity price returns to more appropriately model fat tails and, consequently, more accurately model returns; (iii) introduce a second-day volatility forecast into the model to provide more accurate and timely estimations of its two-day scenario distributions than currently provided by its one-day forecast variance; and (iv) amend STANS to impose a volatility floor using a 10-year look back period to reduce procyclicality in the margin model by capturing sufficient market events in its calculations. Taken together, the Commission believes that the introduction of these enhancements would improve the accuracy of the STANS margin models, and therefore would enable OCC to more effectively calculate clearing members' margin requirements.

Third, as described earlier, OCC proposes to enhance its approach to model correlation estimates by moving to a daily process for updating correlations and by de-volatilizing the return series to estimate the correlations. This change is intended to lead to normalized returns across a variety of asset classes and make the correlation estimator less sensitive to sudden market jumps and therefore more stable. The Commission believes that updating the correlations daily and de-volatilizing the return series to reduce the estimator's sensitivity to market jumps will promote more accurate and robust models within the STANS methodology.

Finally, to enhance its methodology for estimating the defaulting securities in its model, OCC proposes to: (i) Modify the method for estimating the default variance to include only optionable equity securities; (ii) use a shorter time series of six months instead of two years to enable calibration of the model for all securities with OCC systems; and (iii) simulate return scenarios for defaulting securities assuming a default correlation with the driver RUT. The Commission believes these changes will mitigate the effect that extremely illiquid securities with discontinuous data can have on OCC's default estimates, while further
decreasing the degree to which the default variance is subject to sudden jumps across volatile months.

Taken together, the Commission believes that these proposals would improve the accuracy of OCC’s credit exposure calculations and, consequently, OCC’s calculations of its clearing members’ margin requirements. As described above, the proposed changes are designed to better limit OCC’s credit exposure to the clearing members in the event of a clearing member default, which could help ensure that OCC’s operations are not disrupted in the event of a clearing member default. In particular, the daily updates of the pricing data, the enhancements to the econometric model, and the enhancements to the correlation estimates promote more accurate and stable model measurements that have less volatility. Moreover, the enhancements to the defaulting securities methodology will decrease the manner in which the default estimates are affected by illiquid securities and reduce the amount to which the default variance is subject to sudden jumps, further promoting stable model measurements with less volatility.

By better limiting credit exposure to its clearing members, OCC’s proposed changes are designed to help ensure that, in the event of a clearing member default, OCC’s operations would not be disrupted. As a result, it could continue to clear and settle securities transactions as promptly and accurately as possible and safeguard the securities and funds in its custody or control, which generally would help protect investors and the public interest. Additionally, OCC’s enhanced ability to determine margin requirements should help ensure that non-defaulting clearing members would not be exposed to losses that they cannot anticipate or control, which also generally would help protect investors and the public interest.

As a result, the Commission believes the Proposed Rule Change is designed to promote the prompt and accurate clearance and settlement of securities transactions, assure the safeguarding of securities and funds which are in the custody or control of the clearing agency or for which it is responsible, and, in general, to protect investors and the public interest in accordance with Section 17A(b)(3)(F) of the Act.98

B. Consistency With Rules 17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv) Under the Act

The Commission believes that the changes proposed in the Proposed Rule Change are consistent with Rules 17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv) under the Act, which requires that OCC establish, implement, maintain, and enforce written policies and procedures reasonably designed to cover its credit exposures to its participants by establishing a risk-based margin system that, among other things: (i) Considers, and produces margin levels commensurate with the risks and particular attributes of each relevant product, portfolio, and market; (ii) calculates margin sufficient to cover its potential future exposure to participants in the interval between the last margin collection and the close out of positions following a participant default; and (iii) uses reliable sources of timely price data and uses procedures and sound valuation models for addressing circumstances in which pricing data is not readily available or reliable.99

As described above, the proposal contained in the Proposed Rule Change would make several amendments to OCC’s margin methodology designed to improve how it: (i) Accounts for asymmetry in conditional variance;100 (ii) models the statistical distribution of price returns;101 (iii) models second-day volatility forecasts;102 (iv) estimates covariance and correlations between risk factors to provide for stable and sensitive correlation estimations;103 and (v) treats defaulting securities by reducing the impact that illiquid securities with discontinuous data have on default variance estimates.104

The Commission believes the modifications proposed are designed to improve the manner in which STANS would calculate daily margin requirements for OCC’s clearing members. Consequently, the Commission believes that the proposal is designed to both (i) consider, and produce margin levels commensurate with, the risks and particular attributes of each relevant product, portfolio, and market105 and (ii) calculate margin sufficient to cover OCC’s potential future exposure to participants in the interval between the last margin collection and the close out of positions following a participant default.106 Additionally, as discussed in the Proposed Rule Change,107 the proposal would introduce daily updates for price data for equity products, which data would be obtained from a reliable industry vendor. Taken together, the Commission believes that the changes and modifications proposed in the Proposed Rule Change would help ensure that OCC’s margin methodology utilizes a reliable source of timely price data, which would better reflect current market conditions than the current monthly updates, and thereby result in more accurate and responsive margin requirements.108 Consequently, the Commission finds that the proposal is consistent with Rules 17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv) under the Act.

IV. Conclusion

On the basis of the foregoing, the Commission finds that the proposed change is consistent with the requirements of the Act, and in particular, with the requirements of Section 17A of the Act109 and the rules and regulations thereunder.

It is therefore ordered, pursuant to Section 19(b)(2) of the Act,110 that the Proposed Rule Change (SR–OCC–2017–022) be, and it hereby is, approved.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.111

Eduardo A. Aleman,
Assistant Secretary.

[FR Doc. 2018–11615 Filed 5–30–18; 8:45 am]
BILLING CODE 8011–01–P

SECURITIES AND EXCHANGE COMMISSION

[Investment Company Act Release No. 33109]

Notice of Applications for Deregistration Under Section 8(f) of the Investment Company Act of 1940


The following is a notice of applications for deregistration under section 8(f) of the Investment Company Act of 1940 for the month of May 2018. A copy of each application may be obtained via the Commission’s website by searching for the file number, or for

98 17 CFR 240.17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv).
99 17 CFR 240.17Ad–22(e)(6)(i), (e)(6)(iii), and (e)(6)(iv).
100 See Notice of Filing of Proposed Rule Change, 82 FR at 57306.
101 Id.
102 Id.
103 Id.
104 See Notice of Filing of Proposed Rule Change, 82 FR at 57306–57307.
107 See Notice, 82 FR at 57307.
109 In approving this Proposed Rule Change, the Commission has considered the proposed rule’s impact on efficiency, competition, and capital formation. See 15 U.S.C. 78c(f).