FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| STATEMENT | OF CHANGES | S IN BENEFIC | IAL OWNERS | HIP |
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| Name and Address of Reporting Person*     Sammann Derek |   |                                 |   | 2. Issuer Name and Ticker or Trading Symbol CME GROUP INC. [ CME ] |                           |   |                |   |                  |                    |  |  |  | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner Officer (give title |  |          |                | )wner      |  |
|---|---|---------------------------------|---|--|---------------------------|---|----------------|---|------------------|--------------------|--|--|--|---|--|----------|----------------|------------|--|
| (Last) (First) (Middle) 20 S. WACKER DRIVE              |   |                                 | 3. Date of Earliest Transaction (Month/Day/Year) 09/14/2018 |  |                           |   |                |   |                  |                    |  |  | X Officer (give title Other (specify below)  Sr MD Gl Hd Commodity & Option  |   |  |          |                |            |  |
| (Street) CHICAGO IL 60606                               |   |                                 | 4. If Amendment, Date of Original Filed (Month/Day/Year)    |  |                           |   |                |   |                  |                    |  | Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person |  |   |  |          |                |            |  |
| (City) (State) (Zip)                                    |   |                                 |   |  |                           |   |                |   |                  |                    |  |  |  |   |  |          |                |            |  |
| 1. Title of Security (Instr. 3)                         |   | 2. Transac<br>Date<br>(Month/Da | action 2A. Dee<br>Execution Execution if any                |  | . Deemed<br>ecution Date, | 3.<br>Transaction<br>Code (Instr.<br>8) |                | 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 |                  |                    | or 5. Amount of Securities Beneficially Owned Followin |  | ount of<br>ties<br>cially<br>d Following   | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4)   | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership                |          |                |            |  |
|   |   |                                 |   |  |                           |   |                | Code  | v                | Amount             |  | (A) or<br>(D)  | Price  |   | Reported<br>Transaction(s)<br>(Instr. 3 and 4)                     |          |                | (Instr. 4) |  |
| Common  | Stock Class   | s A                             |   | 05/02/2  | 2018                      |   |                |   | G <sup>(1)</sup> | V                  | 1,525  |  | D  | 1   | 0.0  | 1        | 6,654          | D          |  |
| Common Stock Class A                                    |   |                                 | 08/29/2018  |  |                           |   |                | <b>G</b> <sup>(2)</sup>                                 | V                | 528                |  | D  | \$0.0  |   | 1  | 6,126    | D              |            |  |
| Common Stock Class A                                    |   |                                 | 09/14/2018  |  |                           |   |                | A   |                  | 3,680              |  | A  | \$0.0  |   | 1  | 9,806    | D              |            |  |
| Common Stock Class A                                    |   |                                 | 09/15/2018  |  |                           |   |                | F   |                  | 357(3)             |  | D  | \$173.15   |   | 1  | 9,449    | D              |            |  |
| Common Stock Class A                                    |   |                                 | 09/15/2   | /15/2018   |                           |   |                | F   |                  | 590 <sup>(3)</sup> |  | D  | \$173.15   |   | 1  | 8,859    | D              |            |  |
| Common Stock Class A                                    |   |                                 | 09/15/2   | /2018  |                           |   |                | F   |                  | 514 <sup>(3)</sup> |  | D  | \$173.15   |   | 1  | 8,345    | D              |            |  |
| Common Stock Class A                                    |   | 09/15/2                         | /2018   |  |                           |   | F              |   | 257(3)           |                    | D  | \$173.15   |  | 18,088  |  | D        |                |            |  |
| Common Stock Class A                                    |   |                                 |   |  |                           |   |                |   |                  |                    |  |  |  | 1   | 1,758  | I        | by<br>Children |            |  |
| Common Stock Class A                                    |   |                                 |   |  |                           |   |                |   |                  |                    |  |  |  | 1   | 2,540  | I        | by<br>Spouse   |            |  |
| Common Stock Class A                                    |   |                                 |   |  |                           |   |                |   |                  |                    |  | 10,724   |  | 0,724   | I  | by Trust |                |            |  |
|   |   | Та                              |   | Derivativ<br>(e.g., pu   |                           |   |                |   |                  |                    |  |  |  |   |  | wned     |                |            |  |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)     | Title of 2. 3. Transaction 3A. Deemed Execution Date Execution Date, or Exercise (Month/Day/Year) if any Code |                                 | ransact   | 5. Number 6  |                           |   | sable and<br>e | 7.<br>Ar<br>Se<br>Ur<br>De<br>Se                        |                  |                    | 8. Pi<br>Deri<br>Seci<br>(Inst                         | vative<br>urity  | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(<br>(Instr. 4) | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4)   | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |          |                |            |  |
|   |   |                                 |   |  | Code V                    |   |                |   |                  |                    | Expiration<br>Date                                     | Tit  | or<br>Number<br>of<br>Title Shares   |   | r  |          |                |            |  |

## **Explanation of Responses:**

- 1. This transaction involved a gift of securities from the reporting person to his donor advised fund.
- 2. This transaction represented a gift of securities from the reporting person to his children, who share the reporting person's household. The reporting person disclaims beneficial ownership of the shares held by his children, and this report shall not be deemed as an admission that the reporting person is the beneficial owner of his children's shares for purposes of Section 16 or for any other purpose.
- 3. Mr. Sammann surrendered shares to the Company in order to fulfill tax withholding obligations upon the vesting of restricted stock on 9/15/18.

By: Margaret Austin Wright For: Derek Louis Sammann

09/18/2018

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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