## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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| OMB APPROVAL |         |  |  |  |  |  |  |
|--------------|---------|--|--|--|--|--|--|
| OMP Number:  | 2225.02 |  |  |  |  |  |  |

OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

## 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

| 1. Name and Address of Reporting Person*  Mathieu Christopher M. |  |      |                                |   | 2. Issuer Name <b>and</b> Ticker or Trading Symbol Horizon Technology Finance Corp [ HRZN ] |   |   |   |                    |                                      |   |   |   | Check all a<br>Dir | ector  | ng Pe   | 10% O  | wner   |   |
|--|--|------|--------------------------------|---|---|---|---|---|--------------------|--------------------------------------|---|---|---|--------------------|--|---|--|--|---|
| (Last) (First) (Middle) 312 FARMINGTON AVENUE                    |  |      |                                |   |   | 3. Date of Earliest Transaction (Month/Day/Year) 08/25/2015 |   |   |                    |                                      |   |   |   |                    | X bel  | cer (give title<br>ow)<br>SVP, CFO and                            |  | Other (specify below)                            |   |
| (Street) FARMIN (City)   | IGTON C  |      | US 06032<br>Zip)               |   | 4. If   | If Amendment, Date of Original Filed (Month/Day/Year)       |   |   |                    |                                      |   |   |   |                    | 5. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person |   |  |  |   |
|  | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned   |      |                                |   |   |   |   |   |                    |                                      |   |   |   |                    |  |   |  |  |   |
| Date   |  |      |                                |   | /Day/Year) if   |   | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) |   | Code (             | Transaction Disposed Code (Instr. 5) |   | rities Acquired (A)<br>rd Of (D) (Instr. 3, 4 |   |                    | nd Secu<br>Bene  | nount of<br>irities<br>eficially<br>ed Following                  | Forr<br>(D)  | wnership<br>m: Direct<br>or Indirect<br>nstr. 4) | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|  |  |      |                                |   |   |   |   |   | Code               | v                                    | Amount  |   | (A) or<br>(D)                                       | Price              | Tran   | saction(s)<br>r. 3 and 4)   |  |  | (111501. 4)   |
| Common Stock   |  |      |                                |   | 08/25/2015  |   |   |   | P                  |                                      | 3,000   | 0 A \$  |   | \$1                | 10   | 15,862  |  | D  |   |
|  | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |      |                                |   |   |   |   |   |                    |                                      |   |   |   |                    |  |   |  |  |   |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)              | 2. Conversion or Exercise Price of Derivative Security  3. Transaction Date (Month/Day/Year) if any (Month/Day/Y                             |      | Date, Transaction Code (Instr. |   | n of l  |   | Expiration  | 5. Date Exercisable and<br>Expiration Date<br>Month/Day/Year) |                    |                                      | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative<br>Security (Instr.<br>and 4) |   | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) |                    | ,   !  | 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 | (A)   | (D)   | Date<br>Exercisal   |   | Expiration<br>Date | Title                                | or<br>Num<br>of<br>Sha  |   |   |                    |  |   |  |  |   |

**Explanation of Responses:** 

/s/ Christopher M. Mathieu

08/25/2015

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.