

Registrant's telephone number, including area code: **(860) 676-8654**

Check the appropriate box below if the Form 8-K is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Section 8 Other Events

Item 8.01 Other Events

On March 8, 2013, Horizon Technology Finance Corporation (the “Company”) announced that its Board of Directors has declared a dividend of \$0.345 per share, payable in such amounts and on such dates to stockholders of record, as set forth below.

| Record Date | Payment Date | Amount Per Share |
|--------------------------------|--------------|------------------------|
| 3/20/2013 | 4/15/2013 | \$ 0.115 |
| 4/18/2013 | 5/15/2013 | \$ 0.115 |
| 5/20/2013 | 6/17/2013 | \$ 0.115 |
| Total for Second Quarter 2013: | | \$ 0.345 |

A copy of the press release announcing such dividend is attached hereto as Exhibit 99.1 and is incorporated by reference herein.

Section 9 Financial Statements and Exhibits

Item 9.01 Financial Statements and Exhibits

(d) Exhibits.

99.1 Press release of the Company dated March 12, 2013.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: March 12, 2013 HORIZON TECHNOLOGY
FINANCE CORPORATION

By: /s/ Robert D. Pomeroy, Jr.
Robert D. Pomeroy, Jr.
Chief Executive Officer