

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the

Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): September 28, 2015

HORIZON TECHNOLOGY FINANCE CORPORATION

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

814-00802
(Commission File Number)

27-2114934
(I.R.S. Employer Identification No.)

312 Farmington Avenue
Farmington, CT 06032
(Address of principal executive offices and zip code)

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))
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Section 8
Item 8.01

Other Events
Other Events

On September 28, 2015, Horizon Technology Finance Corporation (the “Company”) announced that its Board of Directors has authorized the repurchase of up to \$5 million of its common stock at prices below the Company’s net asset value per share as reported in its most recent financial statements.

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

Section 9
Item 9.01

Financial Statements and Exhibits
Financial Statements and Exhibits

(d) Exhibits.

99.1 Press release of the Company dated September 28, 2015.

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: September 28, 2015

HORIZON TECHNOLOGY FINANCE CORPORATION

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

Exhibit Index

Exhibit No.	Description
99.1	Press release of the Company dated September 28, 2015



Horizon Technology Finance Announces Stock Repurchase Program

FARMINGTON, Conn., September 28, 2015 – Horizon Technology Finance Corporation (NASDAQ: HRZN) (“Horizon”), a leading specialty finance company that provides capital in the form of secured loans to venture capital backed companies in the technology, life science, healthcare information and services and cleantech industries, today announced that its board of directors has authorized the repurchase of up to \$5 million of its common stock at prices below Horizon’s net asset value per share as reported in its most recent financial statements.

Under the repurchase program, Horizon may, but is not obligated to, repurchase shares of its outstanding common stock in the open market or in privately negotiated transactions from time to time. Any repurchases by Horizon will comply with the requirements of Rule 10b-18 under the Securities Exchange Act of 1934, as amended, and any applicable requirements of the Investment Company Act of 1940, as amended. Unless extended by Horizon’s board of directors, the repurchase program will terminate on the earlier of September 30, 2016 and the repurchase of \$5 million of Horizon’s common stock.

The stock repurchase program is intended to minimize the adverse effects of market volatility on the price of Horizon’s common stock. Any repurchases under the program will be in the discretion of Horizon’s management and will depend on a variety of factors. There can be no assurances that any shares will be repurchased under the program or that any repurchases will increase the market value of shares of Horizon’s common stock. Horizon’s board of directors may amend this program, solely in its discretion, at any time prior to its termination.

About Horizon Technology Finance

Horizon Technology Finance Corporation is a leading specialty finance company that provides capital in the form of secured loans to companies backed by venture capital firms within the technology, life science, healthcare information and services and cleantech industries. The investment objective of Horizon is to maximize total returns by generating current income from a portfolio of directly originated secured loans as well as capital appreciation from warrants that it receives when making such loans. Headquartered in Farmington, Connecticut, Horizon has regional offices in Walnut Creek, California and Reston, Virginia. Horizon's common stock trades on the NASDAQ Global Select Market under the ticker symbol “HRZN”. To learn more, please visit www.horizontechnologyfinancecorp.com.

Forward-Looking Statements

Statements included herein may constitute “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Statements other than statements of historical facts included in this press release may constitute forward-looking statements and are not guarantees of future performance, condition or results and involve a number of risks and uncertainties. Actual results may differ materially from those in the forward-looking statements as a result of a number of factors, including those described from time to time in our filings with the Securities and Exchange Commission. Horizon undertakes no duty to update any forward-looking statement made herein. All forward-looking statements speak only as of the date of this press release.

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