

Section 8 Other Events

Item 8.01 Other Events

On December 15, 2010, Horizon Technology Finance Corporation (the Company) announced that its Board of Directors has declared a fourth quarter dividend of \$0.22 per share, payable on December 31, 2010 to stockholders of record on December 28, 2010. 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 December 15, 2010.

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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: December 16, 2010

HORIZON TECHNOLOGY FINANCE
CORPORATION

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