FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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* Mahoney Edmund V.			2. Date of Event Requiring Stater Month/Day/Yea	nent	3. Issuer Name and Ticker or Trading Symbol Horizon Technology Finance Corp [HRZN]					
(Last) 76 BATTERS (Street) FARMINGTO	(First) SON PARK RO ON CT (State)	(Middle)	10/28/2010	4.	(Check a	onship of Reporting Pers all applicable) Director Officer (give title below)	on(s) to Issu 10% Owne Other (spe below)	er 6. Ap	onth/Day/Year) Individual or Joir plicable Line) X Form filed b Person	oate of Original Filed out/Group Filing (Check out/Group Filing (Chec
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)						Illy Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		Nature of Indirect Beneficial Ownership (Instr. 5)	
No securities are beneficially owned						0	D			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4) 2. Date Exercisable Expiration Date (Month/Day/Year) Date Exercisable Expiration Date Expiration Date Expiration Date Expiration Date Exercisable Date			ite	3. Title and Amount of Secu Underlying Derivative Secu 4)			4. Conversion	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
				Expiration Date	n Title		Amount or Number of Shares	Exercise Price of Derivative Security Direct (D) or Indirect (I) (Instr. 5		

Explanation of Responses:

Remarks:

/s/ Edmund V. Mahoney

10/28/2010

** Signature of Reporting Person Date

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

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.

 $^{^{\}star}$ If the form is filed by more than one reporting person, see Instruction 5 (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).

POWER OF ATTORNEY

- I, Edmund V. Mahoney, Director of Horizon Technology Finance Corporation (the "Corporation"), hereby authorize and designate each of Robert D. Pomeroy, Jr. and Christopher M. Mathieu as my agent and attorney-in-fact, with full power of substitution to:
- (1) prepare and sign on my behalf any Form 3, Form 4 or Form 5 under Section 16 of the Securities Exchange Act of 1934, as amended, and file the same with the Securities and Exchange Commission and each stock exchange on which the securities of the Corporation are listed;
- (2) prepare and sign on my behalf any Form 144 Notice under the Securities Act of 1933, as amended, and file the same with the Securities and Exchange Commission; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted.

The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Corporation assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934, as amended, or Section 5 of the Securities Act of 1933, as amended, or Rule 144 promulgated under such Act. This Power of Attorney shall remain in effect until the undersigned is no longer required to file Forms 3, 4, 5 and 144 with respect to the undersigned's holdings of and transactions in securities issued by the Corporation, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

Dated: October 18, 2010 /s/ Edmund V. Mahoney Edmund V. Mahoney