

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

SCHEDULE 13G  
(RULE 13d - 102)

Information to be included in statements filed pursuant  
to Rules 13d-1(b), (c) and (d) and amendments thereto filed  
pursuant to 13d-2(b) \*

Horizon Technology Finance Corporation  
(Name of Issuer)

Common Stock, \$.001 par value  
(Title of Class of Securities)

44045A102  
(CUSIP Number)

November 19, 2010  
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule  
pursuant to which this Schedule is filed:

☐ Rule 13d-1(b)  
☒ Rule 13d-1(c)  
☐ Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on the Following Pages)

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1. NAME OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Bruce Silver

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) ☒

(b) ☐

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

United States

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5. SOLE VOTING POWER

0

6. SHARED VOTING POWER

440,952

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

440,952

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

440,952

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)  
EXCLUDES CERTAIN SHARES\* ☐

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.8%

12. TYPE OF REPORTING PERSON\*

IN

**\*SEE INSTRUCTIONS BEFORE FILLING OUT!**

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1. NAME OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Silver Capital Management, LLC

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*  
(a) ☒ [x]  
(b) ☐ [ ]

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5. SOLE VOTING POWER

0

6. SHARED VOTING POWER

440,952

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

440,952

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

440,952

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)  
EXCLUDES CERTAIN SHARES\* ☐ [ ]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.8%

12. TYPE OF REPORTING PERSON\*

OO

**\*SEE INSTRUCTIONS BEFORE FILLING OUT!**

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1. NAME OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Silver Capital Fund, LLC

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*  
(a) ☒ [x]  
(b) ☐ [ ]

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5. SOLE VOTING POWER

0

6. SHARED VOTING POWER

181,347

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

181,347

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

181,347

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)  
EXCLUDES CERTAIN SHARES\* ☐ [ ]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

2.4%

12. TYPE OF REPORTING PERSON\*

OO

**\*SEE INSTRUCTIONS BEFORE FILLING OUT!**

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1. NAME OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Silver Capital Fund (Offshore) Ltd.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*  
(a) ☒ [x]  
(b) ☐ [ ]

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5. SOLE VOTING POWER

0

6. SHARED VOTING POWER

82,225

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

82,225

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

82,225

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9)  
EXCLUDES CERTAIN SHARES\* ☐ [ ]

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

1.1%

12. TYPE OF REPORTING PERSON\*

CO

**\*SEE INSTRUCTIONS BEFORE FILLING OUT!**

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**ITEM 1(a). NAME OF ISSUER:**

Horizon Technology Finance Corporation (the "Issuer")

**ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:**

76 Batterson Park Road  
Farmington, Connecticut 06032

**ITEM 2(a). NAME OF PERSON FILING:**

The names of the persons filing this statement on Schedule 13G are:

- Bruce Silver, a United States Citizen ("Silver").
- Silver Capital Management, LLC, a Delaware limited liability company ("Silver Capital").
- Silver Capital Fund, LLC, a Delaware limited liability company (the "Domestic Fund").
- Silver Capital Fund (Offshore) Ltd., a Cayman Islands exempted company (the "Offshore Fund").

Mr. Silver is the managing member of Silver Capital. Silver Capital provides investment management services to certain accounts and has the power to vote and dispose of the securities held by such accounts. Silver Capital is the investment manager of the Domestic Fund and the Offshore Fund.

**ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:**

The business address of each of Mr. Silver, Silver Capital and the Domestic Fund is 767 Third Avenue, 32nd Floor, New York, New York 10017.

The business address of the Offshore Fund is c/o Appleby Trust (Cayman) Ltd., Clifton House, 75 Fort Street, P.O. Box 1350, Grand Cayman KY1-1108, Cayman Islands.

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**ITEM 2(c). CITIZENSHIP:**

Mr. Silver is a citizen of the United States.

Each of Silver Capital and the Domestic Fund is a limited liability company formed under the laws of the State of Delaware.

The Offshore Fund is an exempted company formed under the laws of the Cayman Islands.

**ITEM 2(d). TITLE OF CLASS OF SECURITIES:**

Common Stock, \$.001 par value (the "Common Stock")

**ITEM 2(e). CUSIP NUMBER:**

44045A102

**ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13d-1(b), OR 13d-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:**

- (a) ☐ Broker or dealer registered under Section 15 of the Exchange Act.
- (b) ☐ Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) ☐ Insurance company defined in Section 3(a)(19) of the Exchange Act.
- (d) ☐ Investment company registered under Section 8 of the Investment Company Act.
- (e) ☐ An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) ☐ An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
- (g) ☐ A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
- (h) ☐ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) ☐ A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) ☐ Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(c), check this box [x]

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#### ITEM 4. OWNERSHIP.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned:

- (i) Each of Mr. Silver and Silver Capital beneficially owns 440,952 shares of Common Stock.
- (ii) The Domestic Fund beneficially owns 181,347 shares of Common Stock.
- (iii) The Offshore Fund beneficially owns 82,225 shares of Common Stock.
- (iv) Collectively, the Reporting Persons beneficially own 440,952 shares of Common Stock.

(b) Percent of Class:

- (i) Silver Capital and Mr. Silver's beneficial ownership of 440,952 shares of Common Stock represents 5.8% of all of the outstanding shares of Common Stock.
- (ii) The Domestic Fund's beneficial ownership of 181,347 shares of Common Stock represents 2.4% of all of the outstanding shares of Common Stock.
- (iii) The Offshore Fund's beneficial ownership of 82,225 shares of Common Stock represents 1.1% of all of the outstanding shares of Common Stock.
- (iv) Collectively, the Reporting Persons' beneficial ownership of 440,952 shares of Common Stock represents 5.8% of all of the outstanding shares of Common Stock.

(c) Number of shares as to which such person has:

- (i) Sole power to vote or to direct the vote

Not applicable.

- (ii) Shared power to vote or to direct the vote of shares of Common Stock:

Silver Capital and Mr. Silver have shared power to vote or direct the vote of 440,952 shares of Common Stock.

The Domestic Fund has shared power with Silver Capital and Mr. Silver to vote or direct the vote of the 181,347 shares of Common Stock held by the Domestic Fund.

The Offshore Fund has shared power with Silver Capital and Mr. Silver to vote or direct the vote of the 82,225 shares of Common Stock held by the Offshore Fund.

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- (iii) Sole power to dispose or to direct the disposition of shares of Common Stock:

Not applicable.

- (iv) Shared power to dispose or to direct the disposition of shares of Common Stock:

Silver Capital and Mr. Silver have shared power to dispose or direct the disposition of 440,952 shares of Common Stock.

The Domestic Fund has shared power with Silver Capital and Mr. Silver to dispose or direct the disposition of the 181,347 shares of Common Stock held by the Domestic Fund.

The Offshore Fund has shared power with Silver Capital and Mr. Silver to dispose or direct the disposition of the 82,225 shares of Common Stock held by the Offshore Fund.

**ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS.**

If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following [ ].

**ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.**

Not applicable.

**ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH  
ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING  
COMPANY.**

Not applicable.

**ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP.**

See Exhibit B.

**ITEM 9. NOTICE OF DISSOLUTION OF GROUP.**

Not applicable.

**ITEM 10. CERTIFICATION.**

By signing below the undersigned certifies that, to the best of its or his knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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**SIGNATURE**

After reasonable inquiry and to the best of its knowledge and belief, the undersigned certifies that the information set forth in this statement is true, complete, and correct.

Dated: November 24, 2010

SILVER CAPITAL MANAGEMENT, LLC

By: /s/ Bruce Silver  
Bruce Silver, Managing Member

SILVER CAPITAL FUND, LLC  
By: SCM Management, LLC, as Managing Member

By: /s/ Bruce Silver  
Bruce Silver, Managing Member

SILVER CAPITAL FUND (OFFSHORE) LTD.

By: /s/ Bruce Silver  
Bruce Silver, Director

/s/ Bruce Silver  
Bruce Silver

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**EXHIBIT A**  
**JOINT FILING AGREEMENT**

The undersigned hereby agree that the statement on Schedule 13G with respect to the Common Stock of Horizon Technology Finance Corporation dated as of November 24, 2010 is, and any further amendments thereto signed by each of the undersigned shall be, filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended.

Dated: November 24, 2010

SILVER CAPITAL MANAGEMENT, LLC

By: /s/ Bruce Silver  
Bruce Silver, Managing Member

SILVER CAPITAL FUND, LLC

By: SCM Management, LLC, as Managing Member

By: /s/ Bruce Silver  
Bruce Silver, Managing Member

SILVER CAPITAL FUND (OFFSHORE) LTD.

By: /s/ Bruce Silver  
Bruce Silver, Director

/s/ Bruce Silver  
Bruce Silver

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## **EXHIBIT B**

Bruce Silver

Silver Capital Management, LLC

Silver Capital Fund, LLC

Silver Capital Fund (Offshore) Ltd.