
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 Earliest Event Reported
January 4, 2011

Environmental Tectonics Corporation

(Exact name of registrant as specified in its charter)

Pennsylvania

(State or other jurisdiction of incorporation of organization)

1-10655

(Commission File Number)

23-1714256

(IRS Employer Identification Number)

County Line Industrial Park
Southampton, Pennsylvania

(Address of principal executive offices)

18966

(Zip Code)

Registrant's telephone number, including area code (215) 355-9100

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 (see General Instruction A.2):

- 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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Item 1.01. Entry into a Material Definitive Agreement.

Amendment to Common Stock Warrant issued to H.F. Lenfest on April 23, 2009

Environmental Tectonics Corporation (“ETC” or “the “Company”) and H.F. Lenfest (“Lenfest”) are parties to a Secured Promissory Note pursuant to which, among other things, Lenfest made a loan to ETC in the principal amount of \$2,000,000 (the “Loan”).

In connection with the Loan, ETC issued to Lenfest a warrant to purchase 143,885 shares of ETC common stock, at an exercise price per share equal to \$1.39, which was equal to the average price of ETC common stock for the 120 trading days immediately preceding the date of the warrant. This warrant was amended and restated in its entirety on April 23, 2009 (the “April 23 Warrant”).

The descriptions of the Loan and the April 23 Warrant set forth in this Form 8-K are not complete and are qualified in their entirety by reference to the Company’s Current Reports on Form 8-K filed with the Securities and Exchange Commission on February 26, 2009 and April 27, 2009, which are incorporated herein by reference.

On January 4, 2011, the April 23 Warrant was amended, retroactive to April 23, 2009, to remove a provision where the exercise price resets in the event the Company issues securities at prices below the exercise price of the April 23 Warrant (also known as a down round provision) (the “April 23 Warrant Amendment”).

Amendment to Stock Purchase Warrant issued to H.F. Lenfest on July 2, 2009

In 2009, PNC Bank, the Company’s main lender, agreed to increase the amount of financing available under the 2007 PNC Credit Facility from \$15,000,000 to \$20,000,000 subject to the condition that, among other things, Lenfest continues to personally guaranty (the Lenfest Guaranty”) all of ETC’s obligations to PNC Bank.

As consideration for the Lenfest Guaranty, ETC, following the approval of its shareholders on July 2, 2009, issued to Lenfest a warrant to purchase 450,450 shares of ETC common stock, at an exercise price per share equal to \$1.11, which price equaled the average closing price of ETC common stock during the 120 days prior to the issuance of the warrant (“July 2 Warrant”).

The descriptions of the 2007 PNC Credit Facility, Lenfest Guaranty, and the July 2 Warrant set forth in this Form 8-K are not complete and are qualified in their entirety by reference to the Company’s Current Reports on Form 8-K filed with the Securities and Exchange Commission on April 27, 2009 and July 6, 2009, which are incorporated herein by reference.

On January 4, 2011, the July 2 Warrant was amended, retroactive to July 2, 2009, to remove a provision where the exercise price resets in the event the Company issues securities at prices below the exercise price of the July 2 Warrant (also known as a down round provision) (the “July 2 Warrant Amendment”).

Incorporation by Reference

The foregoing descriptions of the April 23 Warrant Amendment and the July 2 Warrant Amendment are qualified in their entirety by reference to said Warrant Amendments.

The Amendment to Common Stock Warrant issued to H.F. Lenfest on April 23, 2009 is filed as Exhibit 10.1 hereto and incorporated herein by reference.

The Amendment to Stock Purchase Warrant issued to H.F. Lenfest on July 2, 2009 is filed as Exhibit 10.2 hereto and incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

The following exhibits are filed herewith:

10.1 Amendment to Common Stock Warrant issued to H.F. Lenfest on April 23, 2009, executed January 4, 2011.

10.2 Amendment to Stock Purchase Warrant issued to H.F. Lenfest on July 2, 2009, executed January 4, 2011.

SIGNATURES

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 thereunto duly authorized.

ENVIRONMENTAL TECTONICS CORPORATION
Registrant

Date: January 7, 2011

By: /s/ Duane D. Deaner
Duane D. Deaner
Chief Financial Officer

**AMENDMENT
TO
COMMON STOCK WARRANT**

This Amendment to Common Stock Warrant (the "Amendment") is entered into as of this ____ day of January, 2011, and effective February 20, 2009, by and between Environmental Tectonics Corporation, a Pennsylvania corporation (the "Company"), and H.F. Lenfest ("Holder").

BACKGROUND

WHEREAS, on February 20, 2009, the Company issued to Holder a Common Stock Warrant to purchase 143,885 shares of the Company's common stock, par value \$0.05 per share, which warrant was amended and restated in its entirety on April 23, 2009 (as so amended and restated, the "Warrant"); and

WHEREAS, the Company and Holder each desire to amend the Warrant under the terms set forth herein;

NOW, THEREFORE, in consideration of the covenants contained herein, and the payment from the Company to the Holder of five hundred dollars (\$500.00), the parties hereby amend the Warrant as follows:

AMENDMENT

1. Amendment. Subsection (a) of Section 6 of the Warrant is hereby deleted in its entirety and replaced with the words "Intentionally Deleted." Subsections (b) through (k) of Section 6 of the Warrant are each hereby designated as subsections (a) through (j), respectively. All references to subsections (b) through (k) of Section 6 of the Warrant are hereby amended to correspond to the appropriate subsections of Section 6 of the Warrant as amended hereby.

2. Warrant Remains In Effect. Except as expressly set forth herein, the Warrant shall remain unmodified and in full force and effect.

3. Miscellaneous. This Amendment may be executed in any number of counterparts and by each of the undersigned on separate counterparts, which counterparts when taken together shall constitute one and the same instrument. The Warrant, as amended and modified by the provisions of this Amendment, shall constitute and be construed as a single agreement. Headings contained in this Amendment are for reference purposes only and shall not affect the interpretation of any provisions contained herein.

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned has executed and delivered this Amendment as of the date and year first set forth above.

ENVIRONMENTAL TECTONICS CORPORATION

By: /s/ Duane D. Deaner
Name: Duane D. Deaner
Title: Chief Financial Officer

ACKNOWLEDGED AND AGREED:

/s/ H.F. Lenfest
H.F. Lenfest

**AMENDMENT
TO
STOCK PURCHASE WARRANT**

This Amendment to Stock Purchase Warrant (the "Amendment") is entered into as of this ____ day of January, 2011, and effective July 2, 2009, by and between Environmental Tectonics Corporation, a Pennsylvania corporation (the "Company"), and H.F. Lenfest ("Holder").

BACKGROUND

WHEREAS, on July 2, 2009, the Company issued to Holder a warrant to purchase 450,450 shares of the Company's common stock, par value \$0.05 per share (the "Warrant"); and

WHEREAS, the Company and Holder each desire to amend the Warrant under the terms set forth herein;

NOW, THEREFORE, in consideration of the covenants contained herein, and the payment from the Company to the Holder of five hundred dollars (\$500.00), the parties hereby amend the Warrant as follows:

AMENDMENT

1. Amendment. Subsection (a) of Section 6 of the Warrant is hereby deleted in its entirety and replaced with the words "Intentionally Deleted." Subsections (b) through (k) of Section 6 of the Warrant are each hereby designated as subsections (a) through (j), respectively. All references to subsections (b) through (k) of Section 6 of the Warrant are hereby amended to correspond to the appropriate subsections of Section 6 of the Warrant as amended hereby.

2. Warrant Remains In Effect. Except as expressly set forth herein, the Warrant shall remain unmodified and in full force and effect.

3. Miscellaneous. This Amendment may be executed in any number of counterparts and by each of the undersigned on separate counterparts, which counterparts when taken together shall constitute one and the same instrument. The Warrant, as amended and modified by the provisions of this Amendment, shall constitute and be construed as a single agreement. Headings contained in this Amendment are for reference purposes only and shall not affect the interpretation of any provisions contained herein.

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned has executed and delivered this Amendment as of the date and year first set forth above.

ENVIRONMENTAL TECTONICS CORPORATION

By: /s/ Duane D. Deaner
Name: Duane D. Deaner
Title: Chief Financial Officer

ACKNOWLEDGED AND AGREED:

/s/ H.F. Lenfest
H.F. Lenfest