

---

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

---

**POST-EFFECTIVE AMENDMENT NO. 1**

to

**FORM S-3**  
**REGISTRATION STATEMENT**  
*UNDER*  
*THE SECURITIES ACT OF 1933*

---

**Environmental Tectonics Corporation**

(Exact Name of Registrant as Specified in Its Charter)

---

**Pennsylvania**  
(State or other jurisdiction  
of incorporation or organization)

**23-1714256**  
(I.R.S. Employer  
Identification No.)

**County Line Industrial Park**  
**Southampton, PA 18966**  
(Address, including Zip Code and telephone  
number, including Area Code of Registrant's  
Principal Executive Offices)

---

**William F. Mitchell**  
**President and Chief Executive Officer**  
**Environmental Tectonics Corporation**  
**Southampton, PA 18966**  
**(215) 355-9100**

(Name, address, including ZIP code, and telephone number, including Area Code, of agent for service)

---

*Copies to:*

**Thomas L. Hanley, Esq.**  
**Stradley Ronon Stevens & Young, LLP**  
**1250 Connecticut Avenue, NW**  
**Washington, DC 20036**  
**Telephone: (202) 822-9611**  
**Facsimile: (202) 822-0140**

---

**Approximate date of commencement of proposed sale to the public:** Not applicable.

---

---

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input checked="" type="checkbox"/>

---

**EXPLANATORY NOTE  
DEREGISTRATION OF COMMON STOCK**

This Post-Effective Amendment No. 1 relates to the Registration Statement on Form S-3 (Registration No. 333-29083) of Environmental Tectonics Corporation, a Pennsylvania corporation (the "Company"), pertaining to the registration of 106,433 shares of common stock of the Company, \$0.05 par value (the "Company Common Stock"), issuable pursuant to certain warrants described therein, and the resale of such shares, which was originally filed with the Securities and Exchange Commission on June 12, 1997 (the "Registration Statement").

The Company is filing this Post-Effective Amendment No. 1 to deregister any of the shares of Company Common Stock that remain unsold under the Registration Statement. The Company is deregistering the shares because its obligation to issue shares pursuant to the warrants described therein has terminated and it has no further obligation to the holders of any shares acquired upon exercise of such warrants to maintain the Registration Statement for resales of those shares. Therefore, the Company hereby removes from registration all shares of Company Common Stock registered under the Registration Statement which remain unsold as of the filing of this Post-Effective Amendment No. 1.

---

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all the requirements for filing on Form S-3 and has duly caused this Post-Effective Amendment No. 1 to be signed on its behalf by the undersigned, thereunto duly authorized, in Southampton, Pennsylvania, on March 11, 2013.

Environmental Tectonics Corporation

By: /s/ William F. Mitchell

William F. Mitchell

President and Chief Executive Officer

---