

### INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

OMB Number: 3235-0104

Estimated average burden

hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

|  |  |   |   |
|--|--|---|---|
| <b>1. Name and Address of Reporting Person*</b><br><u>Pollack Jonathan</u><br><br>(Last) (First) (Middle)<br>2300 YONGE STREET<br>SUITE 1710<br><br>(Street)<br>TORONTO A6 M4P 1E4<br><br>(City) (State) (Zip) | <b>2. Date of Event Requiring Statement (Month/Day/Year)</b><br>05/17/2011 | <b>3. Issuer Name and Ticker or Trading Symbol</b><br><u>CECO ENVIRONMENTAL CORP [ CECE ]</u><br><br><b>4. Relationship of Reporting Person(s) to Issuer (Check all applicable)</b><br><input checked="" type="checkbox"/> Director 10% Owner<br>Officer (give title below) Other (specify below) | <b>5. If Amendment, Date of Original Filed (Month/Day/Year)</b><br><br><b>6. Individual or Joint/Group Filing (Check Applicable Line)</b><br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br>Form filed by More than One Reporting Person |
|--|--|---|---|

#### Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 2,300   | D  |   |
| Common Stock                    | 2,300   | I  | By spouse   |

#### Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) |                           | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) |                            | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---------------------------|---|----------------------------|--|--|---|
|  | Date Exercisable   | Expiration Date           | Title   | Amount or Number of Shares |  |  |   |
| 6% Convertible Debenture                   | 11/26/2009   | 11/26/2014 <sup>(1)</sup> | Common Stock  | 37,500                     | 4  | I  | Footnote <sup>(2)</sup>                               |
| Option (right to buy)                      | 12/13/2010 <sup>(3)</sup>                                | 12/13/2019                | Common Stock  | 65,000                     | 4.05   | D  |   |

**Explanation of Responses:**

1. The convertible debenture is convertible into common stock of the Company at any time prior to the repayment date. It is payable upon the earlier of (i) November 26, 2014, (ii) the consent of holder, or (iii) upon certain changes of control.

2. By JMP FAM Holdings Inc., over which filer has sole voting and dispositive control.

3. The option was issued on December 13, 2009. It vests in five equal annual installments of 13,000 shares on the anniversary date of the grant, commencing December 13, 2010.

**Remarks:**
/s/ Jonathan Pollack
05/19/2011

\*\* Signature of Reporting Person

Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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