

FORM 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Form 3 Holdings Reported.

Form 4 Transactions Reported.

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL

OMB Number: 3235-0362

Estimated average burden

hours per response: 1.0

1. Name and Address of Reporting Person* DEZWIREK PHILLIP			2. Issuer Name and Ticker or Trading Symbol CECO ENVIRONMENTAL CORP [CECE]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chairman		
(Last) (First) (Middle) 2300 YONGE STREET, SUITE 1710			3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2010			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
(Street) TORONTO A6 M4P 1E4			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(City) (State) (Zip)								

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock	10/09/2009		S4	113	D	\$4.17 ⁽¹⁾	1,754,860	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/12/2009		S4	926	D	\$4.19 ⁽¹⁾	1,753,934	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/14/2009		S4	5,786	D	\$4.2 ⁽¹⁾	1,748,148	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/15/2009		S4	5,000	D	\$4.19 ⁽¹⁾⁽²⁾	1,743,148	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/19/2009		S4	2,000	D	\$4.23 ⁽¹⁾	1,741,148	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/20/2009		S4	2,000	D	\$4.23 ⁽¹⁾	1,739,148	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	10/22/2009		S4	2,000	D	\$4.05 ⁽¹⁾	1,737,148	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/04/2009		P4	25,390	A	\$3.3 ⁽³⁾	1,762,538	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/05/2009		P4	4,800	A	\$3.56 ⁽⁴⁾	1,767,338	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/06/2009		P4	8,050	A	\$3.52 ⁽⁵⁾	1,775,388	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/09/2009		P4	8,000	A	\$3.76 ⁽⁶⁾	1,783,388	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/16/2009		P4	3,000	A	\$3.8 ⁽⁷⁾	1,786,388	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/19/2009		P4	5,000	A	\$3.77 ⁽⁸⁾	1,791,388	I	By Icarus Investment Corp. ⁽¹⁹⁾

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock	11/20/2009		P4	500	A	\$3.88 ⁽⁹⁾	1,791,888	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/23/2009		P4	3,500	A	\$3.75	1,795,388	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/27/2009		P4	969	A	\$4.1	1,796,357	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	11/30/2009		P4	1,500	A	\$4.18 ⁽¹⁰⁾	1,797,857	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/03/2009		P4	3,500	A	\$4.1 ⁽¹¹⁾	1,801,357	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/04/2009		P4	2,000	A	\$4.09 ⁽¹²⁾	1,803,357	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/08/2009		P4	1,429	A	\$4.13 ⁽¹³⁾	1,804,786	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/09/2009		S4	2,000	D	\$4.2 ⁽¹⁾	1,802,786	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/11/2009		P4	500	A	\$4.14	1,803,286	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/15/2009		P4	1,000	A	\$4 ⁽¹⁴⁾	1,804,286	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/16/2009		P4	4,000	A	\$4.13 ⁽¹⁵⁾	1,808,286	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/17/2009		P4	100	A	\$4.1	1,808,386	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/18/2009		P4	1,600	A	\$4.04 ⁽¹⁶⁾	1,809,986	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/21/2009		P4	2,000	A	\$4.03 ⁽¹⁷⁾	1,811,986	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/22/2009		P4	200	A	\$4	1,812,186	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/23/2009		P4	1,050	A	\$3.99 ⁽¹⁸⁾	1,813,236	I	By Icarus Investment Corp. ⁽¹⁹⁾
Common Stock	12/28/2009		P4	250	A	\$3.95	1,813,486	I	By Icarus Investment Corp. ⁽¹⁹⁾

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

--

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	4. Deemed Execution Date, if any (e.g., puts/calls (Month/Day/Year))	5. Number of Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
--	--	--------------------------------------	--	---	--	--	--	--	---	--

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
Explanation	Responses:										
<p>1. In connection with this transaction, Icarus Investment Corp. has voluntarily remitted appropriate profits to CECO Environmental Corp. pursuant to Section 16(b) of the Securities Exchange Act of 1934.</p> <p>2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$4.18 to \$4.21, inclusive. The reporting person undertakes to provide to CECO Environmental Corp., any security holder of CECO Environmental Corp., or the staff of the Securities Exchange Commission, upon request, full information regarding the number of shares purchased or sold, as applicable, at each separate price within the ranges set forth in footnotes 2 through 19 in this Form 5.</p> <p>3. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.15 to \$3.48, inclusive.</p> <p>4. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.45 to \$3.64, inclusive.</p> <p>5. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.43 to \$3.59, inclusive.</p> <p>6. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.73 to \$4.05, inclusive.</p> <p>7. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.71 to \$3.90, inclusive.</p> <p>8. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.76 to \$3.77, inclusive.</p> <p>9. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.88 to \$3.90, inclusive.</p> <p>10. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.10 to \$4.25, inclusive.</p> <p>11. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.07 to \$4.20, inclusive.</p> <p>12. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.08 to \$4.09, inclusive.</p> <p>13. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.05 to \$4.16, inclusive.</p> <p>14. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.99 to \$4.00, inclusive.</p> <p>15. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.10 to \$4.15, inclusive.</p> <p>16. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$4.01 to \$4.05, inclusive.</p> <p>17. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.99 to \$4.11, inclusive.</p> <p>18. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.95 to \$4.01, inclusive.</p> <p>19. Filer is President of Icarus Investment Corp. and disclaims beneficial ownership of these securities except to the extent of his pecuniary interest, if any, therein.</p>											

Remarks:

4 of 8.

/s/ Phillip DeZwirek

05/31/2011

** 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 4 (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.

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.