FORM 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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Washington,	D.C.	20549

OMB APPROVAL

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l	hours per response:	1.0

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.

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 Form 4 Transactions Reported. 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person* **CECO ENVIRONMENTAL CORP** [CECE **DEZWIREK PHILLIP** X 10% Owner Director Officer (give title Other (specify below) below) (Last) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) Chairman 2300 YONGE STREET, SUITE 1710 12/31/2010 6. Individual or Joint/Group Filing (Check Applicable 4. If Amendment, Date of Original Filed (Month/Day/Year) (Street)

(Street) TORONTO A6	M4P 1E4	_				Line	Form filed by 0	One Reporting I More than One		
(City) (State)	(Zip)						Person			
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any	3. Transaction Code (Instr.		quired (A)	r Beneficiall or Disposed Of	1	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial	
	(Mont	(Month/Day/Year)	8)	Amount	(A) or (D)	Price			Ownership (Instr. 4)	
Common Stock	01/04/2010		P4	2,246	A	\$4.04(1)	1,815,732	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/06/2010		P4	500	A	\$4.08	1,816,232	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/07/2010		P4	6,095	A	\$4.06 ⁽²⁾	1,822,327	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/08/2010		P4	6,200	A	\$4.06 ⁽³⁾	1,828,527	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/11/2010		P4	805	A	\$4	1,829,332	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/19/2010		P4	1,484	A	\$3.88(4)	1,830,816	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/20/2010		P4	2,499	A	\$3.9 ⁽⁵⁾	1,833,315	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/21/2010		P4	285	A	\$3.86 ⁽⁶⁾	1,833,600	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/22/2010		P4	5,116	A	\$3.79 ⁽⁷⁾	1,838,716	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/26/2010		P4	500	A	\$3.8(8)	1,839,216	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/27/2010		P4	5,000	A	\$3.59 ⁽⁹⁾	1,844,216	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/28/2010		P4	25,900	A	\$3.69(10)	1,870,116	I	By Icarus Investment Corp. ⁽²⁷⁾	
Common Stock	01/29/2010		P4	5,367	A	\$3.7(11)	1,875,483	I	By Icarus Investment Corp. ⁽²⁷⁾	

	Table I - Non-Deri		-	-				I.	I
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 Ac (D) (Instr. 3, 4 a	equired (A) and 5)	or Disposed Of	5. Amount of Securities Beneficially Owned at end of	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
				Amount	(A) or (D)	Price	Issuer's Fiscal Year (Instr. 3 and 4)		(Instr. 4)
Common Stock	02/01/2010		P4	5,100	A	\$3.76(12)	1,880,583	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/02/2010		P4	500	A	\$3.78	1,881,083	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/03/2010		P4	7,303	A	\$3.73(13)	1,888,386	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/04/2010		P4	5,130	A	\$3.74(14)	1,893,516	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/05/2010		P4	14,078	A	\$3.66(15)	1,907,594	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/08/2010		P4	5,000	A	\$3.77(16)	1,912,594	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/09/2010		P4	13,230	A	\$3.69(17)	1,925,824	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/10/2010		P4	1,600	A	\$3.71(18)	1,927,424	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/11/2010		P4	5,500	A	\$3.76(19)	1,932,924	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/12/2010		P4	1,000	A	\$3.78(20)	1,933,924	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/16/2010		P4	5,618	A	\$3.79(21)	1,939,542	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/17/2010		P4	2,500	A	\$4 ⁽²²⁾	1,942,042	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/18/2010		P4	1,100	A	\$3.93(23)	1,943,142	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/19/2010		P4	500	A	\$3.91(24)	1,943,642	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/23/2010		P4	2,100	A	\$3.82 ⁽²⁵⁾	1,945,742	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/24/2010		P4	2,700	A	\$3.8 ⁽²⁶⁾	1,948,442	I	By Icarus Investment Corp. ⁽²⁷⁾
Common Stock	02/25/2010		P4	100	A	\$3.79	1,948,542	I	By Icarus Investment Corp. ⁽²⁷⁾

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 Ta Date (Month/Day/Year)	Be Permerivat Execution Bate, if any (e.g., p (Month/Day/Year)	ive Securi Transaction Itsa ଦ୍ୱଲାଣର, ⁸⁾	Secus Acqu (A) or Dispo of (D)	cquired		of: 함석하다[ciall: Amount of Lecantilities] Underlying Derivative Security (Instr. 3 and 4)		y Chinge (1) 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)	
										Amount or				
1. Title of Derivative Security	2. Conversion or Exercise	(Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code (Instr.	5. Nu of Deriv		6. Date Exerc Pater Exercisable (Month/Day/)	isable and texpiration Date ear)	7. Title Amoun Title Securit	Number 184 Shares	8. Price of Derivative Security	9. Number of derivative Securities	10. Ownership Form:	11. Nature of Indirect Beneficial
(Instr. 3) Explanation	Price of Of Respons	es:	(Month/Day/Year)	8)	Secui	rities	,		Underly Derivat	/ing	(Instr. 5)	Beneficially Owned	Direct (D) or Indirect	Ownership (Instr. 4)
1. The price re	ep Security colu	mn 4 is a weighted av			h (A)doir	n multij							ers(li)n(linster4)k	es to provide
		p., any security holde the ranges set forth in			9f (D)			cnange Comm	1991011 , 1 1]	on request		Transaction(s)	number of sna	res purcnased
1 .		mn 4 is a weighted a			· (Instr	. 3. 4	ple transactions	at prices rang	ging from	\$4.00 to \$	4.14, inclusive	• (Instr. 4) e.		
3. The price re	eported in Colu	mn 4 is a weighted a	verage price. These s	hares were purc	hased i	in multi	ple transactions	at prices rang	ging from	\$4.03 to \$	4.15, inclusive	e.		
		mn 4 is a weighted a												
5. The price re	eported in Colu	mn 4 is a weighted a	verage price. These s	hares were purc	hased i	in multi	ple transactions	at prices rang	ging from	Mumbers of	3.99, inclusive	e. •		
6. The price re	eported in Colu	ımn 4 is a weighted a	verage price. These s	hares were purc	heased i	in (my ulti	PEXERCISABLE	apareces rang	gi rale om	Shares \$	3.88, inclusive	e. •		
		ımn 4 is a weighted a	0 1				•		, ,					1
8. The price re	eported in Colu	ımn 4 is a weighted a	verage price. These s	hares were purc	hased i	in multi	ple transactions	at prices rang	ging from	\$3.80 to \$	3.82, inclusive	e.		
9. The price re	eported in Colu	ımn 4 is a weighted a	verage price. These s	hares were purc	hased i	in multi	ple transactions	at prices rang	ging from	\$3.57 to \$	3.59, inclusive	e.		
10. The price	reported in Col	umn 4 is a weighted	average price. These	shares were pur	chased	l in mul	tiple transaction	ns at prices rar	nging from	n \$3.63 to	\$3.78, inclusiv	ve.		
	•	umn 4 is a weighted	0 1				•		0 0					
		umn 4 is a weighted	0 1	-				-	0 0					
13. The price	13. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.69 to \$3.79, inclusive.													

Remarks:

5 of 8

/s/ Phillip DeZwirek

05/31/2011

Date

** Signature of Reporting Person

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).

14. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.66 to \$3.80, inclusive.

15. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.62 to \$3.73, inclusive.

16. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.63 to \$3.76, inclusive.

17. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.63 to \$3.76, inclusive.

18. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.69 to \$3.75, inclusive.

19. 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 \$3.79, inclusive.

20. 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 \$3.79, inclusive.

21. 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 \$3.85, inclusive.

22. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.81 to \$3.84, inclusive.

23. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.81 to \$3.94, inclusive.

24. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.81 to \$3.94, inclusive.

25. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$3.81 to \$3.80, inclusive.

26. The price reported in Colu

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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