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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL 3235-0287 OMB Number: Estimated average burden hours per response: 0.5

this box if no longer subject to n 16. Form 4 or Form 5 ions may continue. See	STATE
tion 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

			of Section So(n) of the investment Company Act of 1940							
1. Name and Address of Reporting Person* Heyse Richard (Last) (First) (Middle) 225 WEST STATION SQUARE DR. SUITE 700		(Middle)	2. Issuer Name and Ticker or Trading Symbol WESCO INTERNATIONAL INC [WCC] 3. Date of Earliest Transaction (Month/Day/Year) 02/03/2010	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Chief Financial Officer						
(Street) PITTSBURGH (City)	PA (State)	15219-1122 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing (Form filed by One Repor Form filed by More than (Person	ting Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										

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)	Transaction Code (Instr.		4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
WESCO International, Inc. Common Stock	02/03/2010		Р		10,750	A	\$28.9638 ⁽¹⁾	22,750	D	

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

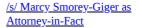
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)	Instr.	n of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities 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)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Appreciation Rights	\$29.07	02/03/2010		A		10,750		(2)	02/03/2020	Common Stock	10,750	\$0.00	10,750	D	

Explanation of Responses:

1. This represents the weighted average price paid for the shares. The shares were purchased at prices ranging from \$28.72 to \$29.24. Mr. Heyse will provide, upon request of the SEC staff, WESCO International, Inc., or a shareholder of WESCO International, Inc., complete information regarding the number of shares purchased at each price within the range.

2. The Stock Appreciation Rights become exercisable in three (3) equal, annual installments beginning on the first anniversary of the date of the grant.

Remarks:



02/05/2010

** 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.

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