

VAN OSS STEPHEN A
 Form 4
 December 23, 2009

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 VAN OSS STEPHEN A

2. Issuer Name and Ticker or Trading Symbol
 WESCO INTERNATIONAL INC
 [WCC]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 225 WEST STATION SQUARE
 DRIVE, SUITE 700
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 12/21/2009

Director 10% Owner
 Officer (give title below) Other (specify below)
 SENIOR VICE PRESIDENT & COO

PITTSBURGH, PA 15219

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V Amount (A) or (D) Price			
WESCO International, Inc. Common Stock	12/21/2009		M	22,500 A \$ 9.3125	106,075	D	
WESCO International, Inc. Common Stock	12/21/2009		S	5,000 D \$ 28	101,075	D	
WESCO International, Inc. Common	12/21/2009		S	5,000 D \$ 28.5	96,075	D	

Stock

WESCO

International, Inc. Common Stock	12/21/2009	S	5,000	D	\$ 28.57	91,075	D
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WESCO

International, Inc. Common Stock	12/21/2009	S	2,500	D	\$ 28.73	88,575	D
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WESCO

International, Inc. Common Stock	12/21/2009	S	5,000	D	\$ 28.7	83,575	D
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

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. 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 Security (Instr. 3 and 4)	Amount or Number of Shares
Option to Purchase WESCO International, Inc. Common Stock	\$ 9.3125	12/21/2009		M	22,500	10/23/2000 10/23/2010	Common Stock	22,500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
	X			

VAN OSS STEPHEN A
225 WEST STATION SQUARE DRIVE, SUITE
700
PITTSBURGH, PA 15219

SENIOR VICE PRESIDENT &
COO

Signatures

s/ Marcy Smorey-Giger, as
Attorney-in-Fact

12/23/2009

__Signature of Reporting Person

Date

Explanation of Responses:

* 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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