

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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).

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

1. Name and Address of Reporting Person* <u>WAY KENNETH L</u>  (Last) (First) (Middle) 225 WEST STATION SQUARE DRIVE, SUITE 700  (Street) PITTSBURGH PA 15219  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>WESCO INTERNATIONAL INC [ WCC ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 12/31/2004	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

**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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
WESCO COMMON STOCK								89,553	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. 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 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				
WESCO COMMON STOCK	\$6.4							07/01/2005	07/01/2012	WESCO COMMON STOCK	5,000		5,000	D	
WESCO COMMON STOCK	\$6.75							07/01/2006	07/01/2013	WESCO COMMON STOCK	5,000		10,000	D	
WESCO COMMON STOCK	\$8.8125							(1)	(1)	WESCO COMMON STOCK	2,836.8794		12,836.8794	D	
WESCO COMMON STOCK	\$7.2813							(1)	(1)	WESCO COMMON STOCK	3,433.4528		16,270.3322	D	
WESCO COMMON STOCK	\$4.775							(1)	(1)	WESCO COMMON STOCK	6,282.7225		22,553.0547	D	
WESCO COMMON STOCK	\$5.575							(1)	(2)	WESCO COMMON STOCK	5,381.1659		27,934.2206	D	
WESCO COMMON STOCK	\$17.9							07/01/2007	07/01/2014	WESCO COMMON STOCK	5,000		32,934.2206	D	
WESCO COMMON STOCK	\$9.01	12/31/2004	12/31/2004	A		3,329.6337		(1)	(1)	WESCO COMMON STOCK	3,329.6337	\$9.01	36,263.8543	D	

**Explanation of Responses:**

- Deferred Share Unit Account balance will be paid upon termination of services as a Director.
- Shares are credited to a Deferred Share Unit Account maintained at WESCO.

**Remarks:**

KENNETH L. WAY

01/04/2005

\*\* 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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