

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>SIMMONS HAROLD C</u> (Last) (First) (Middle) 5430 LBJ FREEWAY, SUITE 1700 (Street) DALLAS TX 75240 (City) (State) (Zip)		2. Issuer Name and Ticker or Trading Symbol <u>KRONOS WORLDWIDE INC [ KRO ]</u> 3. Date of Earliest Transaction (Month/Day/Year) 12/22/2008 4. If Amendment, Date of Original Filed (Month/Day/Year)		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) Other (specify below) Chairman of the Board 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	
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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			
Common Stock \$0.01 par value	12/22/2008		P		1,743	A	\$9	189,510	D	
Common Stock \$0.01 par value	12/22/2008		P		157	A	\$8.97	189,667	D	
Common Stock \$0.01 par value	12/22/2008		P		100	A	\$8.99	189,767	D	
Common Stock \$0.01 par value	12/23/2008		P		387	A	\$8.96	190,154	D	
Common Stock \$0.01 par value	12/23/2008		P		613	A	\$8.98	190,767	D	
Common Stock \$0.01 par value	12/24/2008		P		500	A	\$9.17	191,267	D	
Common Stock \$0.01 par value								28,995,021	I	by Valhi <sup>(1)</sup>
Common Stock \$0.01 par value								17,595,635	I	by NL <sup>(2)</sup>
Common Stock \$0.01 par value								5,203	I	by TFMCC <sup>(3)</sup>
Common Stock \$0.01 par value								49,856	I	by Spouse <sup>(4)</sup>

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					

Explanation of Responses:

1. Directly held by Valhi, Inc. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the reporting person.
2. Directly held by NL Industries, Inc. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the reporting person.
3. Directly held by TIMET Finance Management Company. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the reporting person.
4. Directly held by the reporting person's spouse. The reporting person disclaims beneficial ownership of any shares of the issuer's common stock that his spouse holds.

Remarks:

Exhibit Index Exhibit 99 - Additional Information

A. Andrew R. Louis, Attorney-in-fact, for 12/24/2008  
Harold C. Simmons  
 \*\* 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.

Additional Information

Exhibit 99 - Additional Information

NL Industries, Inc. ("NL"), Harold C. Simmons and his spouse, Annette C. Simmons, are the direct holders of 32.0%, 11.7% and 0.8%, respectively, of the outstanding common stock of NL. NL directly holds 100%, or 10,000,000 shares, of the issuer's Class B Common Stock, par value \$0.01 per share (the "Class B Common Stock," and collectively with Valhi, Inc. ("Valhi") and TIMET Finance Management Company ("TFMC") are the direct holders of 83.1% and 0.5%, respectively, of the outstanding common stock of NL. Substantially all of Contran's outstanding voting stock is held by trusts established for the benefit of certain children and grandchildren of Harold C. Simmons. The Foundation directly holds approximately 0.9% of the outstanding shares of Valhi common stock. The Foundation is a tax-exempt foundation organized for charitable purposes. The CMRT directly holds approximately 0.1% of the outstanding shares of Valhi common stock. Contran sponsors the CMRT, which permits the collective investment of Contran's funds. NL and a subsidiary of NL directly own 3,587,101 shares and 1,186,200 shares, respectively, of Valhi common stock. As already discussed, Valhi is the direct holder of 83.1% of the outstanding common stock of NL. Mr. Harold C. Simmons is chairman of the board of Valhi, VHC, Dixie Rice and Contran and chairman of the board and chief executive officer of NL. By virtue of the holding of the offices, the stock ownership and his service as trustee, all as described above, (a) Mr. Simmons may be deemed to control the operations of Valhi. Harold C. Simmons' spouse is the direct owner of 20,000 shares of Class A Common Stock, 269,775 shares of NL common stock and 200,900 shares of Valhi common stock. Mr. Harold C. Simmons is the direct owner of 276,035 shares of Class A Common Stock, 880,600 shares of NL common stock and 102,683 shares of Valhi common stock. The Annette Simmons Grandchildren's Trust (the "Grandchildren's Trust"), of which Harold C. Simmons and his spouse are trustees and the beneficiaries are the grandchildren of Harold C. Simmons, is the direct holder of 0.5% of the outstanding common stock of NL and 1.1% of the outstanding common stock of Valhi. Titanium Metals Corporation ("TIMET") is the direct holder of 0.5% of the outstanding common stock of NL and 1.1% of the outstanding common stock of Valhi.