Rim Semiconductor CO Form 4 February 17, 2006

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Form 4 or Form 5 obligations

may continue. See Instruction

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(b).

1. Name and Address of Reporting Person * WILLENBERG RAYMOND FRANKLIN JR

> (First) (Middle) (Last)

> > (Street)

305 NE 102ND AVE, #105

PORTLAND, OR 97220

2. Issuer Name and Ticker or Trading Symbol

Rim Semiconductor CO [RSMI]

3. Date of Earliest Transaction

(Month/Day/Year) 01/01/2006

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

_X__ Director 10% Owner X_ Officer (give title Other (specify

below) Chairman, Executive VP

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

below)

(City) (State)

1. Title of 2. Transaction Date 2A. Deemed Security

(Month/Day/Year)

Execution Date, if (Month/Day/Year)

(Zip)

3. 4. Securities TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership Form: Direct (I) (Instr. 4)

7. Nature of Indirect (D) or Indirect Beneficial Ownership (Instr. 4)

(A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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)

Conversion or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number of Derivative TransactionSecurities Acquired (A) or Code Disposed of (D)

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title ar Underlyir (Instr. 3 a

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8) Code V	(Instr. 3, 4, and (A)	5) (D)	Date Exercisable	Expiration Date	Title
Employee Stock Option (right to buy)	\$ 0.17	01/01/2006		D		1,000,000	<u>(1)</u>	04/05/2015	Commo Stock
Employee Stock Option (right to buy)	\$ 0.17	01/01/2006		D		6,000,000	(3)	04/05/2015	Commo Stock
Employee Stock Option (right to buy)	\$ 0.027	01/26/2006		A	10,700,000		<u>(4)</u>	01/26/2016	Commo Stock

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
WILLENBERG RAYMOND FRANKLIN JR 305 NE 102ND AVE, #105	X		Chairman, Executive VP			
PORTLAND, OR 97220	71		Chamman, Executive VI			

Signatures

/s/ Raymond
Willenberg, Jr.

**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).
- (1) These options became exercisable in May 2005 upon the Corporation's consummation of a financing. These options were cancelled by mutual agreement of the parties.
- (2) Not applicable.
- (3) These options became exercisable upon the Corporation's release of a beta version of its semiconductor technologies in December 2005. These options were cancelled by mutual agreement of the parties.
- (4) These Options vest as follows: February 1, 2006 = 1,700,000, March 1, 2006 = 1,800,000, April 1, 2006 = 1,800,000, May 1, 2006 = 1,800,000, June 1, 2006 = 1,800,000, July 1, 2006 = 1,800,000

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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