

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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>SIMONCIC RICHARD J</u> (Last) (First) (Middle) <u>C/O MICROCHIP TECHNOLOGY INCORPORATED</u> <u>2355 WEST CHANDLER BOULEVARD</u> (Street) <u>CHANDLER</u> <u>AZ</u> <u>85224-6199</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>MICROCHIP TECHNOLOGY INC [MCHP]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>02/01/2010</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>VP, Analog and Intrfc Prod Div</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person 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	02/01/2010		M		1,375	A	\$26.51	79,280 ⁽¹⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽¹⁾
Common Stock	02/01/2010		F		534	D	\$26.51	78,746 ⁽²⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽²⁾
Common Stock	02/01/2010		M		46	A	\$26.51	78,792 ⁽³⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽³⁾
Common Stock	02/01/2010		F		18	D	\$26.51	78,774 ⁽⁴⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽⁴⁾

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 (I) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	02/01/2010		M		575	A	\$26.51	79,349 ⁽⁵⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽⁵⁾
Common Stock	02/01/2010		F		223	D	\$26.51	79,126 ⁽⁶⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽⁶⁾
Common Stock	02/01/2010		M		500	A	\$26.51	79,626 ⁽⁷⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽⁷⁾
Common Stock	02/01/2010		F		194	D	\$26.51	79,432 ⁽⁸⁾	I	Shares held Directly and Indirectly, by Trust and Reporting Person's Wife and Mother-in-Law ⁽⁸⁾

**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				
Restricted Stock Units	\$26.51	02/01/2010		M			1,375	(9)	(9)	Common Stock	11,000	\$0	0	D	
Restricted Stock Units	\$26.51	02/01/2010		M			46	(10)	(10)	Common Stock	91	\$0	0	D	
Restricted Stock Units	\$26.51	02/01/2010		M			575	(11)	(11)	Common Stock	4,600	\$0	4,025	D	
Restricted Stock Units	\$26.51	02/01/2010		M			500	(12)	(12)	Common Stock	500	\$0	0	D	

Explanation of Responses:

- Of the 79,280 shares held, 7,500 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
- Of the 78,746 shares held, 6,966 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
- Of the 78,792 shares held, 7,012 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
- Of the 78,774 shares held, 6,994 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
- Of the 79,349 shares held, 7,569 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.

6. Of the 79,126 shares held, 7,346 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
7. Of the 79,626 shares held, 7,846 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
8. Of the 79,432 shares held, 7,652 shares were held Directly; 71,555 shares were held by Trust; and 225 shares were held by Reporting Person's wife and mother-in-law.
9. The restricted stock units vest in eight equal quarterly installments beginning May 1, 2008. Vested shares will be delivered to the reporting person upon vest.
10. The restricted stock units will vest in 45 shares on November 1, 2009 and 46 shares on February 1, 2010 as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating income in the six month period ending September 30, 2008.
11. The restricted stock units vest in eight equal quarterly installments beginning February 1, 2010, as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating profit in the quarter ending June 30, 2009. Vested shares will be delivered to the reporting person upon vest.
12. The restricted stock units will vest in full on February 1, 2010 as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating profit in the quarter ended June 30, 2009. Vested shares will be delivered to the reporting person upon vest.

Remarks:

Deborah L. Wussler, as Attorney-
in-Fact 02/02/2010

** 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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