

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 AZ 85224-6199</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>MICROCHIP TECHNOLOGY INC [MCHP]</u>	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>
	3. Date of Earliest Transaction (Month/Day/Year) <u>05/01/2010</u>	
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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/03/2010		M		575	A	\$29.67	123,207 ⁽¹⁾	I	Shares held Directly and Indirectly, by Trust and by Reporting Person's Wife and Mother-in-Law ⁽¹⁾
Common Stock	05/03/2010		F		188	D	\$29.67	123,019 ⁽²⁾	I	Shares held Directly and Indirectly, by Trust and by Reporting Person's Wife and Mother-in-Law ⁽²⁾
Common Stock	05/01/2010		M		2,750	A	\$29.67	125,769 ⁽³⁾	I	Shares held Directly and Indirectly, by Trust and by Reporting Person's Wife and Mother-in-Law ⁽³⁾
Common Stock	05/01/2010		F		896	D	\$29.67	124,873 ⁽⁴⁾	I	Shares held Directly and Indirectly, by Trust and by Reporting Person's Wife and Mother-in-Law ⁽⁴⁾

**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	\$29.67	05/03/2010		M			575	(5)	(5)	Common Stock	4,600	\$0	3,450	D	
Restricted Stock Units	\$29.67	05/01/2010		M			2,750	(6)	(6)	Common Stock	11,000	\$0	8,250	D	

Explanation of Responses:

1. Of the 123,207 shares held, 8,227 shares were held Directly; 114,755 shares were held by Trust and 225 shares were held by Reporting Person's Wife and Mother-in-Law.
2. Of the 123,019 shares held, 8,039 shares were held Directly; 114,755 shares were held by Trust and 225 shares were held by Reporting Person's Wife and Mother-in-Law.
3. Of the 125,769 shares held, 10,789 shares were held Directly; 114,755 shares were held by Trust and 225 shares were held by Reporting Person's Wife and Mother-in-Law.
4. Of the 124,873 shares held, 9,893 shares were held Directly; 114,755 shares were held by Trust and 225 shares were held by Reporting Person's Wife and Mother-in-Law.
5. 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.
6. The restricted stock units vest in four equal quarterly installments beginning May 1, 2010. Vested shares will be delivered to the reporting person upon vest.

Remarks:

Deborah L. Wussler, as Attorney-in-Fact 05/04/2010

** 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.

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.