

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

<div>1. Name and Address of Reporting Person*</div> <div><u>MOORTHY GANESH</u></div> <div>(Last) (First) (Middle)</div> <div><u>C/O MICROCHIP TECHNOLOGY INCORPORATED</u></div> <div><u>2355 WEST CHANDLER BOULEVARD</u></div> <div>(Street)</div> <div><u>CHANDLER</u> <u>AZ</u> <u>85224-6199</u></div> <div>(City) (State) (Zip)</div>	<div>2. Issuer Name and Ticker or Trading Symbol</div> <div><u>MICROCHIP TECHNOLOGY INC [MCHP]</u></div> <div>3. Date of Earliest Transaction (Month/Day/Year)</div> <div><u>05/09/2011</u></div> <div>4. If Amendment, Date of Original Filed (Month/Day/Year)</div>	<div>5. Relationship of Reporting Person(s) to Issuer (Check all applicable)</div> <div>Director 10% Owner</div> <div><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)</div> <div><u>Exec. VP & COO</u></div> <div>6. Individual or Joint/Group Filing (Check Applicable Line)</div> <div><input checked="" type="checkbox"/> Form filed by One Reporting Person</div> <div>Form filed by More than One Reporting Person</div>
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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	05/09/2011		M		26,000	A	\$23.7	86,009 ⁽¹⁾	I	Shares held Directly and Indirectly, by Trust. ⁽¹⁾
Common Stock	05/09/2011		M		23,100	A	\$27.153	109,109 ⁽²⁾	I	Shares held Directly and Indirectly, by Trust. ⁽²⁾
Common Stock	05/09/2011		S		49,100	D	\$40.44	60,009 ⁽³⁾	I	Shares held Directly and Indirectly, by Trust. ⁽³⁾

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				
Common Stock Option (Right to Buy)	\$23.7	05/09/2011		M			26,000	12/03/2002	12/03/2011	Common Stock	72,000	\$0	0	D	
Common Stock Option (Right to Buy)	\$27.153	05/09/2011		M			23,100	03/31/2003	04/03/2012	Common Stock	24,000	\$0	900	D	

Explanation of Responses:

1. Of the 86,009 shares held, 38,186 shares were held Directly; 47,823 shares were held by Trust.
2. Of the 109,109 shares held, 61,286 shares were held Directly; 47,823 shares were held by Trust.
3. Of the 60,009 shares held, 12,186 shares were held Directly; 47,823 shares were held by Trust.

Remarks:

Deborah L. Wussler, as Attorney-in-Fact 05/10/2011

** 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.