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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

3235-0287 OMB Number: Estimated average burden hours per response: 0.5

5. Relationship of Reporting Person(s) to Issuer

Section 16.	Form 4 or Form 5 obligation ue. See Instruction 1(b).	าร	Filed pursuant to Section 16(a) of the Securities Exchange Act of 193 or Section 30(h) of the Investment Company Act of 1940						
MOORTI	Address of Reporting Pers	son [*] (Middle)	2. Issuer Name and Ticker or Trading Symbol <u>MICROCHIP TECHNOLOGY INC</u> [MCHP] -						
	(Last) (First) C/O MICROCHIP TECHNOLOGY IN		3. Date of Earliest Transaction (Month/Day/Year) 08/01/2010						

MOORTHY GANESH			MICROCHIP TECHNOLOGY INC [MCHP]	Director 10% Owner
(Last) C/O MICROCH 2355 WEST CH		(Middle) GY INCORPORATED LEVARD	3. Date of Earliest Transaction (Month/Day/Year) 08/01/2010	X Officer (give title Other (specify below) below) Exec. VP & COO
(Street) CHANDLER	AZ	85224-6199	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person
(City)	(State)	(Zip)		

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)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	Amount (A) or (D)		(Instr. 3 and 4)		(Instr. 4)
Common Stock	08/01/2010		М		4,250	A	\$30.65	44 , 210 ⁽¹⁾	I	Shares held Directly and by Trust. ⁽¹⁾
Common Stock	08/01/2010		F		1,278	D	\$30.65	42,932 ⁽²⁾	I	Shares held Directly and by Trust. ⁽²⁾
Common Stock	08/02/2010		М		1,500	А	\$30.65	44,432 ⁽³⁾	I	Shares held Directly and by Trust. ⁽³⁾
Common Stock	08/02/2010		F		451	D	\$30.65	43,981 ⁽⁴⁾	I	Shares held Directly and by Trust. ⁽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)	Code (li	Transaction Derivative Code (Instr. Securities		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)	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		(Instr. 4)		
Restricted Stock Units	\$30.65	08/01/2010		М			4,250	(5)	(5)	Common Stock	17,000	\$ 0	8,500	D	
Restricted Stock Units	\$30.65	08/02/2010		М			1,500	(6)	(6)	Common Stock	12,000	\$0	7,500	D	

Explanation of Responses:

1. Of the 44,210 shares held, 12,186 shares were held Directly; 32,024 shares were held by Trust.

2. Of the 42,932 shares held, 12,186 shares were held Directly; 30,746 shares were held by Trust.

3. Of the 44,432 shares held, 12,186 shares were held Directly; 32,246 shares were held by Trust.

4. Of the 43,981 shares held, 12,186 shares were held Directly; 31,795 shares were held by Trust.

5. 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.

6. 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.

Remarks:

Deborah L. Wussler, as Attorney-08/03/2010 in-Fact

** 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.