FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

Name and Address of Reporting Person* MOORTHY GANESH			2. Issuer Name and Ticker or Trading Symbol MICROCHIP TECHNOLOGY INC [MCHP]	Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Loct) (Eirot) (Middle)		(Middle)			Officer (give title below)	Other (specify below)			
(Last) (First) (Middle) C/O MICROCHIP TECHNOLOGY INCORPORATED		` '	3. Date of Earliest Transaction (Month/Day/Year) 11/01/2010	Exec. VP & COO					
2355 WEST CHA	NDLER BOULEVA	RD							
(Street) CHANDLER	AZ	85224-6199	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi	dual or Joint/Group Filing (Che Form filed by One Reporting	, ,			
CHANDLER	AL	83224-0199			Form filed by More than One	•			
(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. Transac Code (li 8)	ction nstr.	tion str. Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock	11/01/2010		М		4,250	A	\$32.05	48,362(1)	I	Shares held Directly and Indirectly, by Trust.	
Common Stock	11/01/2010		F		1,278	D	\$32.05	47,084 ⁽²⁾	I	Shares held Directly and Indirectly, by Trust.	
Common Stock	11/01/2010		М		1,500	A	\$32.05	48,584 ⁽³⁾	I	Shares held Directly and Indirectly, by Trust.	
Common Stock	11/01/2010		F		451	D	\$32.05	48,133 ⁽⁴⁾	I	Shares held Directly and Indirectly, by Trust.	

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. Transac Code (Ir 8)		Derivative		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	\$32.05	11/01/2010		M			4,250	(5)	(5)	Common Stock	17,000	\$0	4,250	D	
Restricted Stock Units	\$32.05	11/01/2010		М			1,500	(6)	(6)	Common Stock	12,000	\$0	6,000	D	

Explanation of Responses:

- 1. Of the 48,362 shares held, 12,186 shares were held Directly; 36,176 shares were held by Trust.
- 2. Of the 47,084 shares held, 12,186 shares were held Directly; 34,898 shares were held by Trust.
- $3.\ Of\ the\ 48{,}584\ shares\ held,\ 12{,}186\ shares\ were\ held\ Directly;\ 36{,}398\ shares\ were\ held\ by\ Trust.$
- 4. Of the 48,133 shares held, 12,186 shares were held Directly; 35,947 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. Vested shares will be delivered to the reporting person upon vest

Remarks:

<u>Deborah L. Wussler, as Attorney-in-Fact</u>

** Signature of Reporting Person

11/03/2010

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.