FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB A	PPR	OVA
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OMB Number:	3235-0287
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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 MOORTHY G			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					
(Loot) (Eirot) (Middle)		(Middle)		X	Officer (give title below)	Other (specify below)			
(Last) (First) (Middle) C/O MICROCHIP TECHNOLOGY INCORPORATED 2355 WEST CHANDLER BOULEVARD		ICORPORATED	3. Date of Earliest Transaction (Month/Day/Year) 10/01/2010	Exec. VP & COO					
(Street) CHANDLER AZ 85224-6199		85224-6199	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi	ndividual or Joint/Group Filing (Check Applicable Li X Form filed by One Reporting Person Form filed by More than One Reporting Pers				
(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)	Execution Date, Transaction		4. Securities Acquired (A) or 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								44,112 ⁽¹⁾	I	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 (li 8)		5. Numb Derivati Securiti Acquire or Dispo (D) (Inst and 5)	ve es d (A) osed of	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	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		Transaction(s) (Instr. 4)		
Restricted Stock Units	(2)	10/01/2010		A		9,511		(3)	(3)	Common Stock	9,511	\$0	9,511	D	

Explanation of Responses:

- $1.\ Of\ the\ 44{,}112\ shares\ held,\ 12{,}186\ shares\ were\ held\ Directly;\ 31{,}926\ shares\ were\ held\ by\ Trust.$
- $2. \ Each \ restricted \ stock \ unit \ represents \ a \ contingent \ right \ to \ receive \ one \ share \ of \ Microchip \ Technology \ Incorporated \ common \ stock.$
- 3. The restricted stock units will vest in full on November 15, 2014 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 December 31, 2010. Vested shares will be delivered to the reporting person upon vest.

Remarks:

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

10/05/2010

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** 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.