FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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	o longer subject to				hou	urs per response:	(
may continue. See	4 or Form 5 obligation 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 <u>MOORTHY</u> (Last) C/O MICROCH 2355 WEST CH	GANESH (First) IP TECHNOLOG	(Middle) GY INCORPORATED	2. Issuer Name and Ticker or Trading Symbol MICROCHIP TECHNOLOGY INC [MCHP] 3. Date of Earliest Transaction (Month/Day/Year) 08/01/2009	(Check all	applicable) Director Officer (give title below)	ng Person(s) to Issuer 10% Owner Other (spec below) . VP & COO	
(Street) CHANDLER (City)	AZ (State)	85224-6199 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	X	Form filed by Or	o Filing (Check Applicable ne Reporting Person ore than One Reporting Pe	,

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	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	08/01/2009		М		2,000	A	\$27.25	31,280(1)	I	Held Directly and Indirectly by Trust ⁽¹⁾
Common Stock	08/01/2009		F		662	D	\$27.25	30,61 8 ⁽²⁾	I	Held Directly and Indirectly by Trust ⁽²⁾

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)		5. Num Deriva Securi Acquir or Disp (D) (Ins and 5)	tive ties ed (A) posed of	f Expiration Date (Month/Day/Year) Securities Un berivative Securities and 4)		Securities Und Derivative Secu	ecurities Underlying Derivat erivative Security (Instr. 3 Securit		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	\$27.25	08/01/2009		М			2,000	(3)	(3)	Common Stock	16,000	\$ <mark>0</mark>	4,000	D	

Explanation of Responses:

1. Of the 31,280 shares held, 4,703 shares were held Directly; 26,577 shares were held by Trust.

2. Of the 30,618 shares held, 4,041 shares were held Directly; 26,577 shares were held by Trust.

3. The restricted stock units vest in eight equal quarterly installments beginning May 1, 2008. Vested shares will be delivered to the reporting person upon vest.

Remarks:

	Deborah L.	Wussler,	<u>as Attorney-</u>	08/04/2009
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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.

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