FORM 4

### **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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

### 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			2. Issuer Name and Ticker or Trading Symbol MICROCHIP TECHNOLOGY INC [ MCHP ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
HUGO MART	INEZ ALBERT J	<u>J</u>	MICROCIII ILCIINOLOGI INC [ MCIP ]		Director	10% Owner		
	st) (First) (Middle)  D MICROCHIP TECHNOLOGY INCORPORATED  S WEST CHANDLER BOULEVARD		3. Date of Earliest Transaction (Month/Day/Year) 08/01/2010		Officer (give title below)	Other (specify below)		
(Street) CHANDLER (City)	AZ (State)	85224-6199 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	idual or Joint/Group Filing ( Form filed by One Repo Form filed by More than	ting Person		

### 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 (Ir 8)					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	08/01/2010	08/01/2010	М		554	A	\$30.65	30,554	I	Shares held by Trust.	
Common Stock	08/01/2010		M		924	A	\$30.65	31,478	I	Shares held 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)	Transaction Code (Instr. 8)		Derivative		6. Date Exerc Expiration D (Month/Day/			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			554	(1)	(1)	Common Stock	1,109	\$0	555	D	
Restricted Stock Units	\$30.65	08/01/2010		M			924	(2)	(2)	Common Stock	3,699	\$0	2,775	D	

#### Explanation of Responses:

- 1. The restricted stock units will vest in two equal annual installments beginning August 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.
- 2. The restricted stock units vest in four equal annual installments beginning August 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:

Deborah L. Wussler, as Attorney-

in-Fact

\*\* Signature of Reporting Person

08/03/2010 Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).