FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROV	Δ	V	O)	R	Р	Р	Α	ΛB	ЛC	(
------------	---	---	----	---	---	---	---	----	----	---

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 of MOORTHY G			2. Issuer Name and Ticker or Trading Symbol MICROCHIP TECHNOLOGY INC [MCHP]		ionship of Reporting Person(s) all applicable) Director Officer (give title below)	to Issuer 10% Owner Other (specify below)		
	(First) TECHNOLOGY IN NDLER BOULEVA		3. Date of Earliest Transaction (Month/Day/Year) 09/02/2005	VP, MCU and Memory Div.				
(Street) CHANDLER (City)	AZ (State)	85224-6199 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	Individual or Joint/Group Filing (Check Applicable X Form filed by One Reporting Person Form filed by More than One Reporting Person Person Form filed by More than One Reporting Person Form filed By More than One Report Form filed By More Form filed By More than One Report Form filed By More Fo				

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)			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	09/02/2005		A		381(1)	A	\$22.814	13,409(2)(3)	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)	Code (li	action Derivative		Transaction Code (Instr. B) Acquired (A) or Disposed of (D) (Instr. 3, 4		str. Derivative str. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ate	7. Title and Al Securities Un Derivative Se 3 and 4)	derlying	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)				

Explanation of Responses:

- 1. Shares were acquired under the Microchip Technology Incorporated 2001 Employee Stock Purchase Plan on September 1, 2005 in an exempt transaction pursuant to Rule 16(b)-3(d), paid for by contributions made during the six month period ended August 31, 2005.
- 2. On July 22, 2005, the Reporting Person transferred ownership of 648 shares from Direct holding to Indirect holding, by Trust.
- 3. Of the 13,409 shares held, 381 shares were held Directly; 13,028 shares were held by Trust.

Remarks:

Deborah L. Wussler, Attorney-in-

09/02/2005

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.