

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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 of Reporting Person* <u>PARNELL GORDON W</u> (Last) (First) (Middle) <u>C/O MICROCHIP TECHNOLOGY INCORPORATED</u> <u>2355 WEST CHANDLER BOULEVARD</u> (Street) <u>CHANDLER</u> <u>AZ</u> <u>85224-6199</u> (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol <u>MICROCHIP TECHNOLOGY INC [MCHP]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>08/09/2007</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>VP and CFO</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person	
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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 Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/09/2007		M		2,037	A	\$15.86	8,037 ⁽¹⁾	I	Held Directly and Indirectly by Trust ⁽¹⁾
Common Stock	08/09/2007		M		6,623	A	\$18.48	14,660 ⁽²⁾	I	Held Directly and Indirectly by Trust ⁽²⁾
Common Stock	08/09/2007		M		1,104	A	\$18.48	15,764 ⁽³⁾	I	Held Directly and Indirectly by Trust ⁽³⁾
Common Stock	08/09/2007		M		8,666	D	\$18.48	24,430 ⁽⁴⁾	I	Held Directly and Indirectly by Trust ⁽⁴⁾
Common Stock	08/09/2007		S		18,430	D	\$39.5721	6,000	I	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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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) (Instr. 4)	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				
Common Stock Option (Right to Buy)	\$15.86	08/09/2007		M			2,037	06/01/2002	06/01/2011	Common Stock	2,037	\$0	0	D	
Common Stock Option (Right to Buy)	\$18.48	08/09/2007		M			6,623	04/09/2004	04/09/2013	Common Stock	6,623	\$0	0	D	
Common Stock Option (Right to Buy)	\$18.48	08/09/2007		M			1,104	04/09/2004	04/09/2013	Common Stock	1,104	\$0	0	D	
Common Stock Option (Right to Buy)	\$18.48	08/09/2007		M			8,666	03/31/2007	04/09/2013	Common Stock	8,666	\$0	17,334	D	

Explanation of Responses:

1. Of the 8,037 shares held, 2,037 shares were held Directly; 6,000 shares were held by Trust.
2. Of the 14,660 shares held, 8,660 shares were held Directly; 6,000 shares were held by Trust.
3. Of the 15,764 shares held, 9,764 shares were held Directly; 6,000 shares were held by Trust.
4. Of the 24,430 shares held, 18,430 shares were held Directly; 6,000 shares were held by Trust.

Remarks:

Deborah L. Wussler, Attorney-in-
Fact 08/13/2007

** 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.