

MICROCHIP TECHNOLOGY INC  
 Form 4  
 August 13, 2007

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549**

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**PARNELL GORDON W**  
  
 (Last) (First) (Middle)  
**C/O MICROCHIP TECHNOLOGY INCORPORATED, 2355 WEST CHANDLER BOULEVARD**  
 (Street)  
**CHANDLER, AZ 85224-6199**  
 (City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**MICROCHIP TECHNOLOGY INC [MCHP]**

3. Date of Earliest Transaction (Month/Day/Year)  
**08/09/2007**

4. If Amendment, Date Original Filed (Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 \_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
**VP and CFO**

6. Individual or Joint/Group Filing (Check Applicable Line)  
 Form filed by One Reporting Person  
 \_\_\_ Form filed by More than One Reporting 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. 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 Ownership (Instr. 4)			
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/09/2007		M		2,037	A	\$ 15.86	8,037 <sup>(1)</sup>	I	Held Directly and Indirectly by Trust <sup>(1)</sup>
Common Stock	08/09/2007		M		6,623	A	\$ 18.48	14,660 <sup>(2)</sup>	I	Held Directly and Indirectly

Common Stock	08/09/2007		M	1,104	A	\$ 18.48	15,764 <sup>(3)</sup>	I	by Trust <sup>(2)</sup> Held Directly and Indirectly by Trust <sup>(3)</sup>
Common Stock	08/09/2007		M	8,666	D	\$ 18.48	24,430 <sup>(4)</sup>	I	Held Directly and Indirectly by Trust <sup>(4)</sup>
Common Stock	08/09/2007		S	18,430	D	\$ 39.5721	6,000	I	Held by Trust

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

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**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 Underlying Securities (Instr. 3 and 4)	8. 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
Common Stock Option (Right to Buy)	\$ 18.48	08/09/2007		M	6,623	04/09/2004 04/09/2013	Common Stock	6,623

