

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person* <u>Bjornholt James Eric</u>	2. Date of Event Requiring Statement (Month/Day/Year) 01/01/2009	3. Issuer Name <b>and</b> Ticker or Trading Symbol <u>MICROCHIP TECHNOLOGY INC</u> [ <u>MCHP</u> ]	
(Last) (First) (Middle) <u>C/O MICROCHIP TECHNOLOGY</u> <u>INCORPORATED</u> <u>2355 WEST CHANDLER BOULEVARD</u>	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <div> <input type="checkbox"/> Director           <input type="checkbox"/> 10% Owner         </div> <div> <input checked="" type="checkbox"/> Officer (give title below)           <input type="checkbox"/> Other (specify below)         </div> <div> <div>VP and CFO</div> </div>		5. If Amendment, Date of Original Filed (Month/Day/Year)
(Street) <u>CHANDLER</u> <u>AZ</u> <u>85224-6199</u>	6. Individual or Joint/Group Filing (Check Applicable Line) <div> <input checked="" type="checkbox"/> Form filed by One Reporting Person           <input type="checkbox"/> Form filed by More than One Reporting Person         </div>		
(City) (State) (Zip)			

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	4,880	D	

**Table II - Derivative Securities Beneficially Owned  
(e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Common Stock Option (Right to Buy)	03/31/2004 <sup>(1)</sup>	04/14/2010	Common Stock	2,375	23.389	D	
Common Stock Option (Right to Buy)	02/17/2003 <sup>(2)</sup>	01/22/2012	Common Stock	458	24.267	D	
Common Stock Option (Right to Buy)	10/25/2003 <sup>(3)</sup>	10/25/2012	Common Stock	356	24.04	D	
Common Stock Option (Right to Buy)	10/09/2004 <sup>(4)</sup>	10/09/2013	Common Stock	1,172	26.14	D	
Common Stock Option (Right to Buy)	02/02/2005 <sup>(5)</sup>	02/02/2014	Common Stock	326	28.31	D	
Common Stock Option (Right to Buy)	03/31/2008 <sup>(6)</sup>	04/01/2014	Common Stock	3,000	27.05	D	
Common Stock Option (Right to Buy)	03/31/2005 <sup>(7)</sup>	04/01/2014	Common Stock	1,500	27.05	D	
Common Stock Option (Right to Buy)	07/21/2005 <sup>(8)</sup>	07/21/2014	Common Stock	1,000	26.25	D	
Common Stock Option (Right to Buy)	07/03/2003 <sup>(9)</sup>	04/03/2012	Common stock	864	27.153	D	
Common Stock Option (Right to Buy)	02/17/2005 <sup>(10)</sup>	04/03/2012	Common Stock	1,782	27.153	D	
Common Stock Option (Right to Buy)	08/01/2003 <sup>(11)</sup>	08/01/2012	Common Stock	823	21	D	
Common Stock Option (Right to Buy)	03/31/2009 <sup>(12)</sup>	04/01/2015	Common Stock	3,300	25.29	D	

**Explanation of Responses:**

1. The option vested in 12 equal monthly installments, commencing March 31, 2004. The option was first exercisable on March 31, 2004.
2. The option vested in full on February 17, 2003 and was first exercisable on February 17, 2003.
3. The option vested in 24 equal monthly installments, commencing October 25, 2003. The option was first exercisable on October 25, 2003.
4. The option vested in full on October 9, 2004 and was first exercisable on October 9, 2004.
5. The option vested in full on February 2, 2005 and was first exercisable on February 2, 2005.
6. The option vests in 12 equal monthly installments, commencing March 31, 2008. The option was first exercisable on March 31, 2008.
7. The option vested in 36 equal monthly installments, commencing March 31, 2005. The option was first exercisable on March 31, 2005.
8. The option vested in 24 equal monthly installments, commencing July 21, 2005. The option was first exercisable on July 21, 2005.
9. The option vested in full on July 3, 2003 and was first exercisable on July 3, 2003.
10. The option vested in 12 equal monthly installments, commencing February 17, 2005. The option was first exercisable on February 17, 2005.
11. The option vested in full on August 1, 2003 and was first exercisable on August 1, 2003.
12. The option vests in 12 equal monthly installments, commencing March 31, 2009. The option is first exercisable on March 31, 2009.

## Remarks:

Deborah L. Wussler, as Attorney-  
in-Fact 01/07/2009

\*\* 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 5 (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.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of Steve Sanghi and Deborah L. Wussler, signing singly, the undersigned's true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of Microchip Technology Incorporated (the "Company"), Forms 3, 4, and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;

(2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4, or 5, complete and execute any amendment or amendments thereto, and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any

of the undersigned's responsibilities to comply with Section 16  
of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and  
effect until the undersigned is no longer required to file Forms  
3, 4, and 5 with respect to the undersigned's holdings of and  
transactions in securities issued by the Company, unless earlier  
revoked by the undersigned in a signed writing delivered to the  
foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power  
of Attorney to be executed as of this 2nd day of January , 2009.

/s/ J. Eric Bjornholt

Signature

J. Eric Bjornholt

Print Name