

# FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2008  
Estimated average burden  
hours per response.....0.5

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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, Section 17(a) of the Public Utility  
Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* J. Eric Bjornholt c/o Microchip Technology Incorporated 2355 West Chandler Boulevard Chandler AZ 85224-6199	2. Issuer Name and Ticker or Trading Symbol Microchip Technology Incorporated [MCHP]	5. Relationship of Reporting Person(s) to Issuer (check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)  VP and CFO
	3. Date of Earliest Transaction Required to be Reported (Month/Day/Year) 01/04/2010	
	4. If amendment, Date Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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 (mm/dd/yy)	2A. Deemed Execution Date, if any (mm/dd/yy)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, & 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3, & 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								6,833	D	

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).

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 control number.

Form 4 (cont.)  
Name and Address of Reporting Person  
J. Eric Bjornholt  
c/o Microchip Technology Incorporated  
2355 West Chandler Boulevard  
Chandler AZ 85224-6199

Issuer Name and Ticker or Trading Symbol  
Microchip Technology Incorporated [MCHP]

Period Of Report  
01/04/2010

**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 (mm/dd/yy)	3A. Deemed Execution Date, if any (mm/dd/yy)	4. Transaction Code (Instr. 8)		5. No. of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, & 5)		6. Date Exercisable and Expiration Date (mm/dd/yy)		7. Title and Amount of Underlying Securities (Instr. 3 & 4)		8. Price of Derivative Security (Instr. 5)	9. No. of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3, & 4)	10. Ownership Form of Derivative Securities: 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				
Restricted Stock Units	(1)	01/04/2010		A		3,177		(2)	(2)	Common Stock	3,177	\$0	3,177	D	
Restricted Stock Units	(1)	01/04/2010		A		2,540		(3)	(3)	Common Stock	2,540	\$0	2,540	D	
Restricted Stock Units	(1)	01/04/2010		A		86		(4)	(4)	Common Stock	86	\$0	86	D	

Explanation of Responses:

- (1) - Each restricted stock unit represents a contingent right to receive one share of Microchip Technology Incorporated common stock.
- (2) - The restricted stock units will vest in full on February 15, 2014 as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating profit in the quarter ended March 31, 2010. Vested shares will be delivered to the reporting person upon vest.
- (3) - The restricted stock units will vest in eight equal quarterly installments beginning February 15, 2011 as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating profit in the quarter ended March 31, 2010. Vested shares will be delivered to the reporting person upon vest.
- (4) - The restricted stock units will vest in full on February 15, 2011 as long as the individual remains a service provider through the vesting date and the Company achieves performance targets for operating profit in the quarter ended March 31, 2010. Vested shares will be delivered to the reporting person upon vest.

By: Deborah L. Wussler, as Attorney-in-Fact  
\*\*Signature of Reporting Person

1/6/2010  
Date

\*\*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 control number.