

Welch David F
 Form 4
 February 24, 2010

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 *
 Welch David F

(Last) (First) (Middle)

C/O INFINERA CORPORATION, 169 JAVA DRIVE

(Street)

SUNNYVALE, CA 94089

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 INFINERA CORP [INFN]

3. Date of Earliest Transaction (Month/Day/Year)
 02/22/2010

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)
 Chief Mktg & Strategy Officer

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 Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Code V Amount (D) Price		

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

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transaction	5. Number of Derivative Securities	6. Date Exercisable and Expiration Date	7. Title and Am Underlying Sec
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Security (Instr. 3)	or Exercise Price of Derivative Security	any (Month/Day/Year)	Code (Instr. 8)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)	(Instr. 3 and 4)			
			Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	A N S
Employee Stock Option (right to buy)	\$ 13	02/22/2010	D		206,250	(1)	06/06/2017	Common Stock	2
Employee Stock Option (right to buy)	\$ 7.61	02/22/2010	A	130,556		(3)	06/06/2017	Common Stock	1
Employee Stock Option (right to buy)	\$ 13	02/22/2010	D		125,000	(4)	02/28/2018	Common Stock	1
Employee Stock Option (right to buy)	\$ 7.61	02/22/2010	A	84,500		(6)	02/28/2018	Common Stock	8

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Welch David F C/O INFINERA CORPORATION 169 JAVA DRIVE SUNNYVALE, CA 94089			Chief Mktg & Strategy Officer	

Signatures

/s/ Michael O. McCarthy, by power of attorney
Date: 02/24/2010

Signature of Reporting Person: _____ Date: _____

Explanation of Responses:

- * 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).
- (1) The option provided for vesting in sixty equal monthly installments beginning on May 24, 2007.
- (2)

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On February 22, 2010, the Issuer cancelled, pursuant to the Issuer's option exchange program, an option granted to the Reporting Person on June 6, 2007. Each exchanged option to purchase one share of common stock was replaced with a new option to purchase a number of shares of common stock equal to the number of options exchanged multiplied by 0.633 which represents an exchange ratio based on the exercise price of the exchanged option, subject to rounding.

- (3) The option vests in thirty-six equal monthly installments beginning on March 5, 2010.
- (4) The option provided for vesting in sixty equal monthly installments beginning on March 28, 2008.

On February 22, 2010, the Issuer cancelled, pursuant to the Issuer's option exchange program, an option granted to the Reporting Person on February 28, 2007. Each exchanged option to purchase one share of common stock was replaced with a new option to purchase a number of shares of common stock equal to the number of options exchanged multiplied by 0.676 which represents an exchange ratio based on the exercise price of the exchanged option, subject to rounding.

- (5) The option vests in forty-eight equal monthly installments beginning on March 5, 2010.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.