

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

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

OMB
Number: 3235-0287
Expires: January 31,
2005
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response... 0.5

1. Name and Address of Reporting Person *
Welch David F

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

C/O INFINERA
CORPORATION, 169 JAVA
DRIVE

3. Date of Earliest Transaction
(Month/Day/Year)
06/24/2010

 Director 10% Owner
X Officer (give title Other (specify
below) below)

Chief Mktg & Strategy Officer

(Street)

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

6. Individual or Joint/Group Filing (Check Applicable Line)
☒ Form filed by One Reporting Person
☐ Form filed by More than One Reporting Person

SUNNYVALE, CA 94089

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Common Stock	500,000	I	(5) See footnote (6)
Common Stock	2,500	I	See footnote (7)

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

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.

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 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. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

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

Signatures

/s/ Michael O. McCarthy, by power of attorney 06/28/2010

__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 sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on August 7, 2009.

The sale price reported in column 4 of Table I represents the weighted average sale price of the shares sold ranging from \$6.73 to \$6.93

(2) per share. Upon request by the Commission staff, the Issuer, or a security holder of the Issuer, the Reporting Person will provide full information regarding the number of shares sold at each separate price.

(3) Shares held directly by the Welch Family Trust dated 4/3/96 for which the Reporting Person serves as trustee.

(4) Shares held directly by LRFA, LLC of which the Reporting Person is the sole managing member.

(5) Shares held directly by SEI Private Trust Company, Trustee of the Welch Family Heritage Trust I u/l dated 9/24/01.

(6) Shares held directly by Welch Group, L.P. of which the Reporting Person is the general partner.

Shares held directly by the Reporting Person as a trustee for his minor children. The Reporting Person disclaims beneficial ownership of

(7) the shares held in trust for his minor children, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of the shares held in trust for his minor children for purposes of Section 16 or for any other purpose.

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.