THOMPSON JOHN D

Check this box

if no longer

subject to

Section 16.

Form 4

November 16, 2004

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

OMB APPROVAL OMB

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Form 4 or Form 5 obligations may continue. See Instruction

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

SECURITIES

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * THOMPSON JOHN D

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

INVITROGEN CORP [IVGN]

(Check all applicable)

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year) 11/12/2004

Filed(Month/Day/Year)

Director 10% Owner Other (specify X_ Officer (give title

below) below) SVP Corp Development

1600 FARADAY AVENUE

4. If Amendment, Date Original

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

(Instr. 4)

Person

CARLSBAD, CA 92008

(City) (State) (Zip)

(Street)

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

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (I)

(Instr. 4)

(A)

(Instr. 8)

Following Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

(Instr. 3, 4 and 5)

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

(Month/Day/Year)

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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 3. Transaction Date 3A. Deemed 4. 5. Number of 6. Date Exercisable and 7. Title and Amour Derivative Conversion (Month/Day/Year) Execution Date, if **Transaction**Derivative **Expiration Date Underlying Securit** Securities Security or Exercise Code (Month/Day/Year) (Instr. 3 and 4) any

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8)	Acquired (or Dispose (D) (Instr. 3, 4 and 5)	ed of				
				Code V	(A)	` ′	Date Exercisable	Expiration Date	Title	Amo or Num of Sh
Non-Qualified Stock Option (right to buy)	\$ 62.51	11/12/2004		A	11,200		<u>(1)</u>	11/12/2014	Common Stock	11,2
Restricted Share Units	\$ 0	11/12/2004		A	2,000		(2)	(3)	Common Stock	2,0

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

THOMPSON JOHN D 1600 FARADAY AVENUE CARLSBAD, CA 92008

SVP Corp Development

Signatures

By: John A. Cottingham For: John D. Thompson

11/16/2004

**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) Option vesting is over a 4 year period, vesting 25% on each anniversary of the November 12, 2004 grant date, contingent upon continued service to Invitrogen.
- (2) The restricted share units vest 100% on the third anniversary of the November 12, 2004 date of grant.
- (3) Restricted share units can be converted into shares of Invitrogen common stock on the applicable vesting date.

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.

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