

COTTINGHAM JOHN A
 Form 4
 May 17, 2005

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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 *
COTTINGHAM JOHN A

(Last) (First) (Middle)

1600 FARADAY AVENUE

(Street)

CARLSBAD, CA 92008

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
INVITROGEN CORP [IVGN]

3. Date of Earliest Transaction
 (Month/Day/Year)
01/31/2005

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)
SVP General Counsel & Sec.

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 Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock | 01/31/2005 | | J | | 190 | A | \$ 50.2775 |
| Common Stock | 04/30/2005 | | J | | 233 | A | \$ 50.2775 |

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

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SEC 1474
 (9-02)

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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 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) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| Incentive Stock Option (right to buy) | \$ 76.86 | 05/13/2005 | | A | 1,301 | <u>(1)</u> 05/13/2015 | Common Stock | 1,301 |
| Non-Qualified Stock Option (right to buy) | \$ 76.86 | 05/13/2005 | | A | 7,699 | <u>(1)</u> 05/13/2015 | Common Stock | 7,699 |
| Restricted Share Units | \$ 0 | 05/13/2005 | | A | 1,500 | <u>(2)</u> <u>(3)</u> | Common Stock | 1,500 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| COTTINGHAM JOHN A 1600 FARADAY AVENUE CARLSBAD, CA 92008 | | | SVP General Counsel & Sec. | |

Signatures

By: Joseph W. Secondine For: John A. Cottingham 05/17/2005

____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 May 13, 2005 grant date, contingent upon continued service to Invitrogen.
- (2) The restricted share units shall vest 100% on the third anniversary of the May 13, 2005 grant date.
- (3) Once vested, restricted share units do not expire. They can be converted into shares of Invitrogen common stock upon the termination of the Director's service to the Registrant.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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