INVITROGEN CORP Form SC 13G May 06, 2004

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

Information Statement Pursuant to Rules 13d-1 and 13d-2 Under the Securities Exchange Act of 1934 (Amendment No.)*

Invitrogen Corporation

(Name of Issuer)

Common Stock

(Title of Class of Securities)

46185R100

(CUSIP Number)

April 29, 2004

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- ý Rule 13d-1(c)
- o Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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| CUSIP No. | 46185R100 | 13G | Page 2 of 24 Pages | |
|--|--|--|---|--|
| 1. | Names of Reportin Citadel Limited Pa | | on Nos. of above persons (entities only) | |
| 2. | Check the Appropr | iate Box if a Member of a G | roup (See Instructions) | |
| | (a) | ý | | |
| | (b) | o | | |
| 3. | SEC Use Only | | | |
| 4. | Citizenship or Plac Illinois limited part U.S.A. | | | |
| | 5. | | Sole Voting Power 0 | |
| | 6. | | Shared Voting Power | |
| | | | 895,306 shares of common stock | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s 24% Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | |
| | 7. | | Sole Dispositive Power 0 | |
| | 8. | | Shared Dispositive Power See Row 6 above. | |
| 9. | Aggregate Amount See Row 6 above. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | |
| 11. | Approximately 5.6 of March 1, 2004, p | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Note referred to in Row 6 above). | | |
| 12. | Type of Reporting PN; HC | Person (See Instructions) | | |

⁽¹⁾ See footnote 1 in Item 4.

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|----------------------------------|---|---------------------------|---|--|--|
| 1. | Names of Reporting GLB Partners, L.P. | Persons. I.R.S. Identific | ation Nos. of above persons (entities only) | | |
| | OLD 1 artifers, L.1. | | | | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | |
| | (b) | О | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizenship or Place of Delaware limited par U.S.A. | | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares | | | 357 call options (exercisable into 35,700 shares of common | | |
| Beneficially Owned by | | | stock) | | |
| Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s 24% Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) O | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Not referred to in Row 6 above). | | | | |
| 12. | Type of Reporting Person (See Instructions) PN; HC | | | | |

⁽¹⁾ See footnote 1 in Item 4.

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|--|--|---|--|--|--|
| 1. | | Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Citadel Investment Group, L.L.C. | | | |
| 2. | Check the Appropria | ate Box if a Member of a G | roup (See Instructions) | | |
| | (a) | ý | • | | |
| | (b) | o | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizenship or Place Delaware limited lia U.S.A. | | | | |
| | 5. | | Sole Voting Power | | |
| | | | 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $2_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount I See Row 6 above. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | | |
| 10. | Check if the Aggreg | ate Amount in Row (9) Exc | cludes Certain Shares (See Instructions) O | | |
| 11. | Approximately 5.6% | of Class Represented by Amount in Row (9) imately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding th 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Note to in Row 6 above). | | | |
| 12. | Type of Reporting P OO; HC | erson (See Instructions) | | | |

⁽¹⁾ See footnote 1 in Item 4.

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13G

CUSIP No. 46185R100

| 1. | Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Kenneth Griffin | | | |
|--|--|-------------------------|---|--|
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) | | | |
| | (a) | ý | | |
| | (b) | o | | |
| 3. | SEC Use Only | | | |
| 4. | Citizenship or Place o U.S. Citizen U.S.A. | f Organization | | |
| | 5. | | Sole Voting Power 0 | |
| | 6. | | Shared Voting Power | |
| Number of Shares Beneficially | | | 895,306 shares of common stock 357 call options (exercisable into 35,700 shares of common stock) | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | |
| | 7. | | Sole Dispositive Power 0 | |
| | 8. | | Shared Dispositive Power See Row 6 above. | |
| 9. | Aggregate Amount Be See Row 6 above. | eneficially Owned by Ea | ch Reporting Person | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes referred to in Row 6 above). | | | |
| 12. | Type of Reporting Per IN; HC | rson (See Instructions) | | |
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| CUSIP No. | 46185R100 | 13G | Page 6 of 24 Pages | | | |
|--|---|---|---|--|--|--|
| 1. | Names of Reporting Citadel Wellington | tion Nos. of above persons (entities only) | | | | |
| 2. | Check the Appropri | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | o | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Place Illinois limited parti | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amount See Row 6 above. | Beneficially Owned by Ea | ch Reporting Person | | | |
| 10. | Check if the Aggres | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) O | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstandi of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated N referred to in Row 6 above). | | | | | |
| 12. | Type of Reporting l PN; HC | Person (See Instructions) | | | | |
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| CUSIP No. | 46185R100 | 13G | Page 7 of 24 Pages | | | |
|--|---|--|---|--|--|--|
| 1. | Names of Reporting Citadel Wellington | | ion Nos. of above persons (entities only) | | | |
| 2. | Check the Appropri | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | o | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Place Delaware limited pa | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amount See Row 6 above. | Beneficially Owned by Ea | ch Reporting Person | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | | |
| 11. | Approximately 5.69 of March 1, 2004, p | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Note referred to in Row 6 above). | | | | |
| 12. | Type of Reporting PN; HC | Person (See Instructions) | | | | |
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| CUSIP No. | 46185R100 | 13G | Page 8 of 24 Pages | | |
|--|---|---|---|--|--|
| 1. | | Persons. I.R.S. Identificati Global Strategies Fund Ltd | ion Nos. of above persons (entities only) | | |
| 2. | Check the Appropria | Check the Appropriate Box if a Member of a Group (See Instructions) | | | |
| | (a) | ý | | | |
| | (b) | o | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizenship or Place of Bermuda company | of Organization | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount B See Row 6 above. | Beneficially Owned by Eac | ch Reporting Person | | |
| 10. | Check if the Aggrega | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) O | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstandi of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated N referred to in Row 6 above). | | | | |
| 12. | Type of Reporting Pe CO; HC | erson (See Instructions) | | | |
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| CUSIP No. | 46185R100 | 13G | Page 9 of 24 Pages | | | |
|--|---|---|---|--|--|--|
| 1. | Names of Reportin Citadel Equity Fun | | ion Nos. of above persons (entities only) | | | |
| 2. | Check the Appropr | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | o | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Plac Cayman Islands co | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\mathfrak{T}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amount See Row 6 above. | t Beneficially Owned by Eac | ch Reporting Person | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outs of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordina referred to in Row 6 above). | | | | | |
| 12. | Type of Reporting CO; HC | Person (See Instructions) | | | | |
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| CUSIP No. | 46185R100 | 13G | Page 10 of 24 Pages | | | |
|--|--|---|---|--|--|--|
| 1. | | g Persons. I.R.S. Identificati and Credit Opportunity Fun | on Nos. of above persons (entities only) d Ltd. | | | |
| 2. | Check the Appropr | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | О | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Plac Cayman Islands co | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\mathfrak{T}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amount See Row 6 above. | t Beneficially Owned by Eac | ch Reporting Person | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | | |
| 11. | Approximately 5.6 | plus the shares of common s | ow (9) g (based on 52,020,524 shares of common stock issued and outstanding as stock issuable upon the conversion of the Convertible Subordinated Notes | | | |
| 12. | Type of Reporting CO; HC | Person (See Instructions) | | | | |
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| CUSIP No. 46 | 185R100 | 13G | Page 11 of 24 Pages | | |
|--|--|--------------------------|--|--|--|
| 1. | Names of Reporting I Citadel Jackson Inves | | ion Nos. of above persons (entities only) | | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | |
| | (b) | О | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizenship or Place of Cayman Islands comp | | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $2_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount B See Row 6 above. | eneficially Owned by Eac | ch Reporting Person | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Note referred to in Row 6 above). | | | | |
| 12. | Type of Reporting Pe CO; HC | erson (See Instructions) | | | |
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| CUSIP No. | 46185R100 | 13G | Page 12 of 24 Pages | | | |
|--|---|--|---|--|--|--|
| 1. | Names of Reportin Citadel Credit Trac | | ion Nos. of above persons (entities only) | | | |
| 2. | Check the Approp | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | o | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Plac Delaware limited l | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amoun See Row 6 above. | t Beneficially Owned by Eac | ch Reporting Person | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) O | | | | |
| 11. | Approximately 5.6 of March 1, 2004, | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstand of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated N referred to in Row 6 above). | | | | |
| 12. | Type of Reporting CO | Person (See Instructions) | | | | |
| | | | | | | |

| CUSIP No. | 46185R100 | 13G | Page 13 of 24 Pages | | | |
|--|--|---|---|--|--|--|
| 1. | Names of Reportin Citadel Derivatives | | ion Nos. of above persons (entities only) | | | |
| 2. | Check the Appropr | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | | |
| | (b) | o | | | | |
| 3. | SEC Use Only | | | | | |
| 4. | Citizenship or Plac Delaware limited li | | | | | |
| | 5. | | Sole Voting Power 0 | | | |
| | 6. | | Shared Voting Power | | | |
| | | | 895,306 shares of common stock | | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\frac{1}{2}$ ₄ % Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | | |
| | 7. | | Sole Dispositive Power 0 | | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | | |
| 9. | Aggregate Amount See Row 6 above. | Beneficially Owned by Ead | ch Reporting Person | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) O | | | | |
| 11. | Approximately 5.6 | ass Represented by Amount in Row (9) y 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as 004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes Row 6 above). | | | | |
| 12. | Type of Reporting OO | Person (See Instructions) | | | | |
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| CUSIP No. 46 | 185R100 | 13G | Page 14 of 24 Pages | | |
|------------------------------------|--|-------------------------|---|--|--|
| 1. | Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Aragon Investments, Ltd. | | | | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) | | | | |
| | (a) | ý | | | |
| | (b) | o | | | |
| 3. | SEC Use Only | | | | |
| 4. | Citizenship or Place of Organization Bermuda company | | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| Number of | | | 895,306 shares of common stock | | |
| Shares Beneficially Dwned by | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\mathfrak{P}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | | | |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | | |
| 11. | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes referred to in Row 6 above). | | | | |
| 12. | Type of Reporting Pe CO | rson (See Instructions) | | | |
| | | | | | |

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| CUSIP No. | 46185R100 | 13G | Page 15 of 24 Pages | | |
|--|--------------------------------------|--|---|--|--|
| 1. | Names of Reporting Citadel Trading G | | ion Nos. of above persons (entities only) | | |
| 2. | Check the Approp | riate Box if a Member of a C | Group (See Instructions) | | |
| | (a) | ý | | | |
| | (b) | o | | | |
| 3. | SEC Use Only | | | | |
| 4. | | Citizenship or Place of Organization Delaware limited liability company | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\mathfrak{T}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amour See Row 6 above. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | |
| 11. | Approximately 5.6 of March 1, 2004, | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes referred to in Row 6 above). | | | |
| 12. | Type of Reporting OO | Person (See Instructions) | | | |
| | | | | | |

| CUSIP No. | 46185R100 | 13G | Page 16 of 24 Pages | | |
|--|--|--|---|--|--|
| 1. | Names of Reportin Saragossa Trading | | ion Nos. of above persons (entities only) | | |
| 2. | Check the Appropr | iate Box if a Member of a C | Group (See Instructions) | | |
| | (a) | ý | | | |
| | (b) | o | | | |
| 3. | SEC Use Only | | | | |
| 4. | | Citizenship or Place of Organization Delaware limited liability company | | | |
| | 5. | | Sole Voting Power 0 | | |
| | 6. | | Shared Voting Power | | |
| | | | 895,306 shares of common stock | | |
| Number of Shares Beneficially | | | 357 call options (exercisable into 35,700 shares of common stock) | | |
| Owned by Each Reporting Person With | | | \$180,569,000 in principal amount of the Company s $\mathfrak{T}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1) | | |
| | 7. | | Sole Dispositive Power 0 | | |
| | 8. | | Shared Dispositive Power See Row 6 above. | | |
| 9. | Aggregate Amount See Row 6 above. | Aggregate Amount Beneficially Owned by Each Reporting Person See Row 6 above. | | | |
| 10. | Check if the Aggre | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o | | | |
| 11. | Approximately 5.6 of March 1, 2004, p | Percent of Class Represented by Amount in Row (9) Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes referred to in Row 6 above). | | | |
| 12. | Type of Reporting OO | Person (See Instructions) | | | |
| | | | | | |

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|---------------------|-------------|--|---------------------|
| Item 1. | (a) (b) | Name of Issuer INVITROGEN CORPORATION Address of Issuer s Principal Exe 1600 Faraday Avenue Carlsbad, CA 92008 | |
| Item 2. | (a) (b) (c) | Carlsbad, CA 92008 Name of Person Filing Address of Principal Business Off Citizenship Citadel Limited Partnership 131 S. Dearborn Street, 32nd Floot Chicago, Illinois 60603 Illinois limited partnership GLB Partners, L.P. 131 S. Dearborn Street, 32nd Floot Chicago, Illinois 60603 Delaware limited partnership Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floot Chicago, Illinois 60603 Delaware limited liability compant Kenneth Griffin 131 S. Dearborn Street, 32nd Floot Chicago, Illinois 60603 U.S. Citizen Citadel Wellington Partners L.P. c/o Citadel Investment Group, L.I. 131 S. Dearborn Street, 32nd Floot Chicago, Illinois 60603 Illinois limited partnership | or . or my or |
| | | Citadel Wellington Partners L.P. c/o Citadel Investment Group, L.I 131 S. Dearborn Street, 32nd Floo Chicago, Illinois 60603 Delaware limited partnership | L.C. |
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Citadel Kensington Global Strategies Fund Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Bermuda company

Citadel Equity Fund Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Cayman Islands company

Citadel Distressed and Credit Opportunity Fund Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Cayman Islands company

Citadel Jackson Investment Fund Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Cayman Islands company

Citadel Credit Trading Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Cayman Islands company

Citadel Derivatives Group LLC c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Delaware limited liability company

Aragon Investments, Ltd. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Bermuda company

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(d)

(e)

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Citadel Trading Group L.L.C. c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Delaware limited liability company

Saragossa Trading LLC c/o Citadel Investment Group, L.L.C. 131 S. Dearborn Street, 32nd Floor Chicago, Illinois 60603 Delaware limited liability company Title of Class of Securities Common Stock, par value \$0.01 per share CUSIP Number

46185R100

| Item 3. | If this statement is filed pursuant to §\$240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: |
|---------|--|
|---------|--|

| (a) | o | Broker or dealer registered under section 15 of the Act (15 U.S.C. 780). |
|-----|---|---|
| (b) | 0 | Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c). |
| (c) | o | Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c). |
| (d) | 0 | Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8). |
| (e) | 0 | An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E); |
| (f) | o | An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F); |
| (g) | 0 | A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G); |
| (h) | o | A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813); |
| (i) | 0 | A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3); |
| (j) | 0 | Group, in accordance with §240.13d-1(b)(1)(ii)(J). |

If this statement is filed pursuant to Rule 13d-1(c), check this box. \acute{y}

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Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1. CITADEL LIMITED PARTNERSHIP

GLB PARTNERS, L.P.

CITADEL INVESTMENT GROUP, L.L.C.

KENNETH GRIFFIN

CITADEL WELLINGTON PARTNERS L.P.

CITADEL WELLINGTON PARTNERS L.P. SE

CITADEL KENSINGTON GLOBAL STRATEGIES FUND LTD.

CITADEL EQUITY FUND LTD.

CITADEL DISTRESSED AND CREDIT OPPORTUNITY FUND LTD.

CITADEL JACKSON INVESTMENT FUND LTD.

CITADEL CREDIT TRADING LTD.

CITADEL DERIVATIVES GROUP LLC

ARAGON INVESTMENTS, LTD.

SARAGOSSA TRADING LLC

CITADEL TRADING GROUP L.L.C.

(a) Amount beneficially owned:

895,306 shares of common stock

357 call options (exercisable into 35,700 shares of common stock)

\$180,569,000 in principal amount of the Company s $\mathfrak{T}_4\%$ Convertible Subordinated Notes due 2006 (convertible into 2,097,201 shares of common stock) (1)

(b) Percent of class:

Approximately 5.6% as of the date of this filing (based on 52,020,524 shares of common stock issued and outstanding as of March 1, 2004, plus the shares of common stock issuable upon the conversion of the Convertible Subordinated Notes referred to in Item (a) above).

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote

0

(ii) Shared power to vote or to direct the vote

See item (a) above.

(iii) Sole power to dispose or to direct the disposition of

0

(iv) Shared power to dispose or to direct the disposition of

See item (a) above.

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(1) The securities reported herein include (i) 895,306 shares of common stock, par value \$0.01 per share, (ii) 357 call options exercisable into 35,700 shares of common stock and (iii) 2,097,201 shares of common stock that Reporting Persons may acquire in the future through the conversion of \$180,569,000 in principal amount of $2^{1}/_{4}\%$ Convertible Subordinated Notes, which may be converted by the Reporting Persons at any time prior to and including December 15, 2006 into shares of common stock at the conversion price of \$86.10 per share.

Item 5. Ownership of Five Percent or Less of a Class

Not Applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not Applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being

Reported on By the Parent Holding Company or Control Person

See Item 2 above.

Item 8. Identification and Classification of Members of the Group

Not Applicable.

Item 9. Notice of Dissolution of Group

Not Applicable.

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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After reasonable inquiry and to the best of its knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Dated this 5th day of May, 2004

/s/ Kenneth Griffin Kenneth Griffin

CITADEL LIMITED PARTNERSHIP

CITADEL INVESTMENT GROUP, L.L.C.

By: GLB Partners, L.P., By: /s/ Kenneth Griffin

its General Partner Kenneth Griffin, President

By: Citadel Investment Group,

L.L.C.,

its General Partner CITADEL EQUITY FUND LTD.

By: /s/ Kenneth Griffin By: Citadel Limited Partnership,

Kenneth Griffin, President its Portfolio Manager

By: GLB Partners, L.P.,
GLB PARTNERS, L.P. its General Partner

By: Citadel Investment Group, L.L.C.,

L.L.C.,

its General Partner its General Partner

By: /s/ Kenneth Griffin By: /s/ Kenneth Griffin

Kenneth Griffin, President Kenneth Griffin, President

CITADEL WELLINGTON PARTNERS L.P. ARAGON INVESTMENTS, LTD.

By: Citadel Limited Partnership, By: Citadel Limited Partnership,

its General Partner its Portfolio Manager

By: GLB Partners, L.P., By: GLB Partners, L.P.,

its General Partner its General Partner

By: Citadel Investment Group, L.L.C.,

L.L.C.,

its General Partner its General Partner

By: /s/ Kenneth Griffin By: /s/ Kenneth Griffin
Kenneth Griffin, President Kenneth Griffin, President

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CITADEL WELLINGTON PARTNERS L.P.

SE

By: Citadel Limited Partnership,

its General Partner

By: GLB Partners, L.P.,

its General Partner

By: Citadel Investment Group,

L.L.C.,

its General Partner

By: /s/ Kenneth Griffin

Kenneth Griffin, President

SARAGOSSA TRADING LLC

By: /s/ Kenneth Griffin

Kenneth Griffin, President

CITADEL DISTRESSED AND CREDIT

OPPORTUNITY FUND LTD.

By: Citadel Limited Partnership,

its Portfolio Manager

By: GLB Partners, L.P.,

its General Partner

By: Citadel Investment Group,

L.L.C.,

its General Partner

By: /s/ Kenneth Griffin

Kenneth Griffin, President

CITADEL DERIVATIVES GROUP LLC

By: Citadel Limited Partnership,

its Managing Member

By: GLB Partners, L.P.,

its General Partner

By: Citadel Investment Group,

L.L.C.,

its General Partner

By: /s/ Kenneth Griffin

Kenneth Griffin, President

CITADEL TRADING GROUP L.L.C.

By: Citadel Limited Partnership,

its Managing Member

By: GLB Partners, L.P.,

its General Partner

By: Citadel Investment Group,

L.L.C.,

its General Partner

By: /s/ Kenneth Griffin

Kenneth Griffin, President

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CITADEL KENSINGTON GLOBAL STRATEGIES FUND LTD.

LTD.

By: Citadel Limited Partnership,

By:

GLB Partners, L.P., its General Partner

its Portfolio Manager

By: Citadel Investment Group, L.L.C.,

its General Partner

/s/ Kenneth Griffin By:

Kenneth Griffin, President

By: Citadel Limited Partnership,

CITADEL JACKSON INVESTMENT FUND

its Portfolio Manager

GLB Partners, L.P., By:

its General Partner

By: Citadel Investment Group,

L.L.C.,

its General Partner

/s/ Kenneth Griffin By:

Kenneth Griffin, President

CITADEL CREDIT TRADING LTD.

By: Citadel Limited Partnership,

its Portfolio Manager

By: GLB Partners, L.P.,

its General Partner

Citadel Investment Group, L.L.C., By:

its General Partner

/s/ Kenneth Griffin By:

Kenneth Griffin, President

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