Konesky Gregory Alan Form 4 February 02, 2010

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).

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 * Konesky Gregory Alan

(Last) (First) (Middle)

3 ROLLING HILL RD.

(City)

(Street)

2. Issuer Name and Ticker or Trading Symbol

BOVIE MEDICAL CORP [bvx]

3. Date of Earliest Transaction

(Month/Day/Year) 12/29/2009

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

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person

Officer (give title

Form filed by More than One Reporting

6. Ownership

Form: Direct

(Instr. 4)

(D) or Indirect Beneficial

5. Relationship of Reporting Person(s) to

(Check all applicable)

10% Owner Other (specify

7. Nature of

Ownership

(9-02)

(Instr. 4)

Indirect

OMB APPROVAL

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January 31,

2005

0.5

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Number:

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response...

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burden hours per

Person

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

Issuer

below)

X_ Director

HAMPTON BAYS, NY 11946

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(State)

(Zip)

(Month/Day/Year)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5) (A)

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

5. Amount of

Securities

Owned

Beneficially

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

1. Title of Derivative Conversion Security or Exercise (Instr. 3) Price of

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year)

5. Number 4. Transaction of Derivative Code Securities (Instr. 8) Acquired

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of **Underlying Securities** (Instr. 3 and 4)

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Derivative (A) or
Security Disposed of (D)
(Instr. 3, 4, and 5)

Code V (A) (D) Date Exercisable Expiration Title Amount Date or

Number of Shares

7,500

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Konesky Gregory Alan
3 ROLLING HILL RD. X

HAMPTON BAYS, NY 11946

Signatures

s/ Gregory 02/01/2010 Konesky

**Signature of Date
Reporting Person

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) Reporting person was granted a stock option to vest and be exercisable over 7 years at the rate of 14.28% of the option on the anniversary date of each succeeding year and shall become fully vested and fully exercisable on the 7th anniversary of the date of grant.

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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