

Mammen Timothy PV
 Form 4
 September 14, 2007

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 *
 Mammen Timothy PV

2. Issuer Name and Ticker or Trading Symbol
 IPG PHOTONICS CORP [IPGP]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 C/O IPG PHOTONICS CORPORATION, 50 OLD WEBSTER ROAD
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/12/2007

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Vice President & CFO

OXFORD, MA 01540

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

(City) (State) (Zip)

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 Beneficial Ownership (Instr. 4) | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--------|---|--|---|------------|-------|
| | | | | Code | V | Amount | | | | (A) or (D) | Price |
| Common Stock | 09/12/2007 | | M | | | 16,668 | A | \$ 1.5 | 108,667 | D | |
| Common Stock | 09/12/2007 | | S ⁽¹⁾ | | | 16,668 | D | \$ 18.1666 | 91,999 | D | |

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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title Amount or Number of Shares |
| Employee Stock Option (right to buy) | \$ 1.5 | 09/12/2007 | | M | 16,668 | (3) 05/01/2009 | Common Stock 16,668 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|----------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Mammen Timothy PV C/O IPG PHOTONICS CORPORATION 50 OLD WEBSTER ROAD OXFORD, MA 01540 | | | Vice President & CFO | |

Signatures

Angelo P. Lopresti,
Attorney-in-fact
Date: 09/14/2007

**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 sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 13, 2007.
Sales ranged from \$17.90 to \$18.43 as follows: 600 shares at \$17.90; 400 shares at \$17.92; 200 shares at \$17.93; 186 shares at \$17.94; 1,114 shares at \$17.96; 100 shares at \$18.01; 1,007 shares at \$18.02; 100 shares at \$18.0350; 1,293 shares at \$18.04; 400 shares at \$18.05; 300 shares at \$18.06; 1,000 shares at \$18.07; 100 shares at \$18.09; 300 shares at \$18.10; 100 shares at \$18.13; 100 shares at \$18.15; 175 shares at \$18.16; 25 shares at \$18.17; 372 shares at \$18.18; 247 shares at \$18.19; 528 shares at \$18.20; 300 shares at \$18.21; 1,845 shares at \$18.22; 200 shares at \$18.23; 400 shares at \$18.24; 149 shares at 18.27; 800 shares at \$18.28; 100 shares at \$18.2850; 529 shares at \$18.29; 100 shares at \$18.3050; 379 shares at \$18.31; 245 shares at \$18.32; 490 shares at \$18.33; 9 shares at \$18.34; 100 shares at \$18.35; 122 shares at \$18.36; 300 shares at \$18.38; 600 shares at \$18.39; 200 shares at \$18.40; 628 shares at \$18.41; 200 shares at \$18.4150 and 325 shares at \$18.43.
- (3) These options became exercisable in 4 equal installments beginning on 5/1/00.

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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