SMITH- PILKINGTON KAREN A

Form 4

February 16, 2012

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

OMB APPROVAL

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

Estimated average

See Instruction

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading SMITH- PILKINGTON KAREN A Issuer Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] (First)

(Check all applicable)

(Last)

(Middle)

(Zip)

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

X Director 10% Owner Officer (give title Other (specify below)

6409 GUADALUPE MINES ROAD

(State)

02/14/2012

(Street) 4. If Amendment, Date Original

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

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

SAN JOSE, CA 95120

(City)

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

4. Securities 3. TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

6. Ownership 7. Nature of 5. Amount of Securities Form: Direct Indirect Beneficially Beneficial (D) or Owned Ownership Indirect (I) Following (Instr. 4) (Instr. 4)

Reported (A) Transaction(s) or (Instr. 3 and 4)

10,535

Amount Code V (D)

Common 02/14/2012 Stock

Price 4,835 \$0 Α (1)

D

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

Edgar Filing: SMITH- PILKINGTON KAREN A - Form 4

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ite Amou		nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired						Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	n Title N	Or		
						Exercisable Date	Date		Number		
				C-1- V	(A) (D)				of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

X

SMITH- PILKINGTON KAREN A 6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120

Signatures

(1)

By: Saria Tseng For: Karen Smith
Bogart
02/16/2012

**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).

According to the Company's 2004 Equity Incentive Plan and the Board Compensation Schedule as adopted by the Board on February 7, 2012, each Outside Director will be automatically granted Restricted Stock Units as of such date, if he or she will have served on the Board for at least the preceding six (6) months, with such grant to be effective as of the first day that the Company's trading window re-opens (or as of the date of the meeting of the Board or Compensation Committee, as applicable, if the Company's trading window is open on such date), subject to the Outside Director's continued service to the Board through such 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.

Reporting Owners 2