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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  SMITH- PILKINGTON KAREN A						2. Issuer Name and Ticker or Trading Symbol  MONOLITHIC POWER SYSTEMS INC  MPWR								(Ch	Relationship eck all appl X Direct	,				
(Last)	(Fi AT OAKS E	rst) (	3. Dat	3. Date of Earliest Transaction (Month/Day/Year) 08/07/2013										Officer (give title below)		Other ( below)	specify			
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person					
SAN JOS	SE CA	<b>A</b> 9	95119												Form	Form filed by More than C			ı I	
(City)	(St	tate) (	Zip)												Perso	n				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/					Execution Date,			Transaction Dispose Code (Instr. and 5)			urities Acquired (A sed Of (D) (Instr. 3			Securit Benefic Owned	ties cially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A)	or P	rice				(r. 4)	(Instr. 4)	
Common Stock 08					/2013				<b>M</b> <sup>(1)</sup>		30,00	00 /	\$	316.2	(2) 44	4,789		D		
Common Stock 08				08/07/2	2013				S <sup>(1)</sup>		30,00	00 1		\$27	14	4,789		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Conversion D		3. Transaction Date (Month/Day/Year)	if any	emed ion Date, /Day/Year)	4. Transaction Code (Instr 8)		ion of		6. Date Exc Expiration (Month/Da	Date	•	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		. 3	8. Price of Derivative Security (Instr. 5)	derivative tive Securities ty Beneficial		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	1 1 1 1		Date Exercisabl		xpiration ate	or		ount nber res								
Non- Qualified Stock Option (right to buy)	\$16.97 <sup>(2)</sup>	08/07/2013			M <sup>(1)</sup>			30,000	05/24/2008	8 0:	5/24/2014	Common	30,0	000	\$0.0	0		D		

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. On December 11, 2012, the Company's Board declared a special cash dividend of \$1.00 per common share, which was paid on December 28, 2012 to all shareholders of record as of the close of business on December 21, 2012. The Board approved a modification whereby each outstanding option as of December 28, 2012 was increased by a ratio of 1.0471 with a corresponding reduction in the exercise price.

By: Saria Tseng For: Karen
Bogart

08/

08/09/2013

\*\* Signature of Reporting Person

Date

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

- \* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.