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

Name and Address of Reporting Person*     MCBURNIE DOUGLAS M				<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									Relationship of Reporting Perso (Check all applicable)     X Director			10% Owner			
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 02/19/2014									Officer (give title below)		Othe belo	er (specify w)		
/9 GREAT OARS BLVD						If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street) SAN JOS	SE C	CA 95119														Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(5	State)	(Zip)											Person						
		Tab	le I	- Non-Deri	vativ	Se	curit	ies A	cquire	d, D	isposed o	of, or E	Benefic	ially	Owne	d				
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		ate,	3. Transaction Code (Instr. 8)			es Acquired (A) o Of (D) (Instr. 3, 4			5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	of Indirect Beneficial Ownership			
									Code	v	Amount	(A) or (D)	Price		Report Transa	llowing ported insaction(s) str. 3 and 4)	(Instr. 4)	(Instr. 4)		
Common	Stock			02/19/201	4				M		20,000	A	\$16.	\$16.2(1)		7,520	D			
Common	Stock			02/19/201	4				S		20,000	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common	Stock			02/19/201	4				M		15,000	A	\$22.0	<b>)</b> 1 <sup>(1)</sup>	22	2,520	D			
Common	Stock			02/19/201	4				S		15,000	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common	Stock			02/19/201	4				M		25,000	A	\$19.2	29(1)	32	2,520	D			
Common	Stock			02/19/201	4				S		25,000	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common	Stock			02/19/201	4				M		705	A	\$22		8	,225	D			
Common	Stock			02/19/201	4				S		705	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common Stock 02/19/2014		4				M		941	A	\$16	\$16.2		8,461							
Common	Stock			02/19/201	4				S		941	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common	Stock			02/19/201	4				M		1,176	A	\$19	.29	8	,696	D			
Common Stock 02/19/2014				4				S		1,176	D	\$34.54	\$34.5475(2)		,520	D				
Common Stock 02/19/2014				4				M		1,176	A	\$12	\$12.28		8,696					
Common	Stock			02/19/201	4				S		1,176	D	\$34.54	475 <sup>(2)</sup>	7	,520	D			
Common	Stock			02/19/201					S		4,027	D	\$34.52			,493	D			
		Т	able	e II - Deriva e g r							posed of, converti				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	Deemed cution Date,	4. Trans Code	action	5. N of Der Sec (A) Dis of (	lumber ivative curities quired or posed D) str. 3, 4	6. Date Exer Expiration (Month/Day		cisable and late (Year)	7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)  Amount of Num or Num of Shai		8. Price of Derivative Security (Instr. 5)	rivative curity	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (E or Indire (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)		

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.		5. Number		6. Date Exercisable and Expiration Date (Month/Day/Year)				8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Non- Qualified Stock Option (right to buy)	\$12.28	02/19/2014		M			1,176	12/28/2012	02/18/2016	Common Stock	1,176	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$16.2	02/19/2014		М			941	12/28/2012	05/24/2014	Common Stock	941	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$16.97 <sup>(1)</sup>	02/19/2014		М			20,000	05/24/2008	05/24/2014	Common Stock	20,000	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$19.29	02/19/2014		М			1,176	12/28/2012	02/09/2017	Common Stock	1,176	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$20.2 <sup>(1)</sup>	02/19/2014		М			25,000	02/02/2011	02/09/2017	Common Stock	25,000	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$22.01	02/19/2014		М			705	12/28/2012	05/22/2015	Common Stock	705	\$0.0	0	D	
Non- Qualified Stock Option (right to buy)	\$23.05 <sup>(1)</sup>	02/19/2014		М			15,000	05/22/2009	05/22/2015	Common Stock	15,000	\$0.0	0	D	

## Explanation of Responses:

- 1. 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.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$34.90. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$34.51 to \$34.535. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Douglas McBurnie 02/20/2014

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.

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