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*     Moyer James C			MON	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR ]									. Relationsh Check all ap X Direc	plicable	porting Person(s) to ) 10% (				
(Last) 79 GREA	(F AT OAKS I	,	(Middle)	3. Date	3. Date of Earliest Transaction (Month/Day/Year) 03/08/2011								Offic belo	er (give w)	; title		Other (specify below)		
(Street) SAN JOS (City)			95119 (Zip)	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Appl Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					on
	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, f any (Month/Day/Year)		3. T C	3. Transaction Code (Instr. 8)		4. Securities Acquire Disposed Of (D) (Inst			ired (A) or		5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or		7. Nature of Indirect Beneficial Ownership			
					С	ode	v	Amount		(A) or (D)	Price	е	Following Reported Transaction(s) (Instr. 3 and 4)		Indirect (I) (Instr. 4)		(Instr. 4)		
Common Stock		03/08/2011				M		12,0	00(1)	(i) A (		57.77	495,383		I		by Moyer FamilyTrust <sup>(2)</sup>		
Common	Stock		03/08/2011				M		99,9	99(1)	A		\$5	595,3	82	I			loyer lyTrust <sup>(2)</sup>
Common Stock		11/26/2013				S <sup>(3)</sup>		8,500		D	\$32	5954 <sup>(4)</sup>	344,282				by Moyer FamilyTrust <sup>(2)</sup>		
Common Stock		06/24/2014				M		20,000(		A	\$17.92(5)		143,282		I		by Moyer FamilyTrust <sup>(2)</sup>		
Common Stock		06/24/2014				M		94	1 (1)	A	\$17.92		144,223		I		by Moyer FamilyTrust <sup>(2)</sup>		
Common Stock		12/10/2014				S <sup>(3)</sup>		4,600		D	\$49.2752(6)		121,223		I		by Moyer FamilyTrust		
Common Stock		12/11/2014				S <sup>(3)</sup>		4,600		D	\$49.3037(7)		116,623		I		by Moyer FamilyTrust		
Common Stock											894,302		D						
		Т	able II - Deriva (e.g., p																
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)	Code (Ir	Transaction of Code (Instr. 8) Sc Ac (A Di of (Instr. 5) Of (Instr. 5)		Exp		ate Exercisable and iration Date nth/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		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		<b>A</b> )	(D)	Date Exerc	cisable	Expira Date		or Num of Title Shar										

## Explanation of Responses:

- 1. Represents vested shares acquired through the cash exercise of a stock option in compliance with the Company's Insider Trading Compliance Program.
- 2. Amended ownership from Direct to Indirect.
- 3. In accordance with the reporting person's 10b5-1 trading plan.
- 4. 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 \$32.28 to \$32.76. 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.
- 5. 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.

- 6. 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 \$48.75 to \$49.69. 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.
- 7. 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 \$48.97 to \$49.71. 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: James Moyer 12/12/2014

\*\* 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.