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 [*] Moyer James C				2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]									(Ch	eckallapp X Direc	plicable)		Person(s) to Issue 10% Owner Other (spec		wner	
(Last) (First) (N 79 GREAT OAKS BLVD			/liddle)	3. Date of Earliest Transaction (Month/Day/Year) 06/12/2013							belo		tie		ow)	specity				
(Street) SAN JOS	E CA	5119	4. If Ar	menc	lment,	Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting					on			
(City)	(St	ate) (Z	ïp)										Pers	on						
		Tabl	e I - Non-Deriv	ative S	ecu	rities	s Acq	uired	, Dis	sposed o	of, o	r Benefic	ial	ly Own	ed					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	Execution)ate,	3. Transaction Code (Instr. 8)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			Beneficia Owned		es ally	Form: (D) or Indire	orm: Direct D) or ndirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Am	ount (/ o ([r	Price		Followin Reported Transact (Instr. 3	d tion(s)	(Instr.	4)	(Ins	tr. 4)	
Common Stock			06/12/2013			S ⁽¹⁾	S ⁽¹⁾		,600	D	D \$24.6425 ⁽²		422,883		I		by Moyer FamilyTrust			
Common Stock			06/13/2013			S ⁽¹⁾		1	,600	D \$24.5531		(3)	3) 421,283		Ι		by Moyer FamilyTrust			
Common Stock													1,006,301		D					
		Та	ble II - Derivat (e.g., ρι									Beneficia ecurities		Owned						
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. Transaci Code (In 8) Code		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed . 3, 4	Expirat (Month	ion D /Day/	xercisable and n Date bay/Year) Expiration ble Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		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)	

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

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 \$24.59 to \$24.66. 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.
 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 \$24.10 to \$24.68. 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: Meera Rao For: James	06/12/2012
Moyer	06/13/2013

** 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.