FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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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 [*] <u>Moyer James C</u>				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]											ck all app Direc	blicable)	-		% Ow	vner
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/08/2013										belov	er (give ti w)	tie		ow)	pecify
(Street) SAN JOS (City)	5119 ïp)	4. If Amendment, Date of Original Filed (Month/Day/Year)									· ·	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person								
		Table	e I - Non-Deriv	ative S	ecu	rities	s Acq	uir	ed, [Disposed	l of,	or E	Benefici	all	y Owne	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year))ate,	Code (I		on 🛛 🛙	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and				Benefic Owned		es ally	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
							Code	,	v	Amount (A or (D		Pi	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)	
Common Stock			08/08/2013			S ⁽¹⁾	S ⁽¹⁾		8,500	D	D \$28.9152		(2)	376,783				by Moyer FamilyTrust		
Common Stock			08/09/2013			S ⁽¹⁾			8,500 I		\$27.9042(3)		(3)	368,283				by Moyer FamilyTrust		
Common Stock															1,006	5,301		D		
		Ta	ble II - Derivat (e.g., pu							sposed c , conver					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. Transact Code (In 8) Code		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed . 3, 4	Exp (Mo	iration nth/D	eercisable a n Date ay/Year) Expirati	ion	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		of De Se	. Price of Jerivative Security Security Instr. 5) Owned Followin Reporte Transac (Instr. 4)		ve es ally ng d tion(s)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4)		11. Nature of Indirect Beneficial Jownership 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 \$28.86 to \$28.99. 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 \$27.41 to \$28.34. 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.

Den Senie Terre Fem James	
By: Saria Tseng For: James	09/00/2012
Moyer	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.