FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number: 3235-02							
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hours per response:	0.5						

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					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 08/10/2011								X Officer (give title Other (specification) Chief IC Design Engineer					ow)	
(Street) SAN JOSE CA 95120 (City) (State) (Zip)					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 Form filed by More than One Reporting Person					
		Tabl	e I - Non-Deriv	ative S	Secu	ırities	Acq	uire	d, D	isposed o	of, or	Benefici	ially	/ Owne	ed	,			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2. Transaction Date (Month/Day/Yea	Exec r) if an	2A. Deemed Execution Date if any (Month/Day/Ye			ransaction ode (Instr.						5. Amour Securitie Seneficia Owned	s ally	Form: (D) or Indire	Direct	7. Nature of Indirect Beneficial Ownership	
						Cod	e ,	v .	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)			
Common	Common Stock 08/						S ⁽¹⁾			146	D \$11.8048		8	1,007,608		D			
Common Stock														483,383		I		by Moyer FamilyTrust	
		Та	ble II - Derivat (e.g., pı							posed of, convertil				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date,	4. Transaction Code (Instr. 8)		5. Num of Deriva Securi Acquir (A) or Dispos of (D) (Instr. and 5)	tive ties red	Expiratio ive (Month/D ies ed			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		of De Sec	Price 9. Nun deriva serivative scurity Benefi nstr. 5) Owned Follov Repor Transa (Instr.		ve es ally ng d tion(s)	10. Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Beneficial Ownership	
				Code	v	(A)		Date Exercisa		Expiration e Date	Title	Amount or Number of Shares							

Explanation of Responses:

 $1. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$

By: Meera Rao For: James
Moyer

** Signature of Reporting Person Date

08/11/2011

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.

LIMITED POWER OF ATTORNEY FOR MONOLITHIC POWER SYSTEMS SECTION 16(a) FILINGS

Know all by these present, that the undersigned, James C. Moyer, hereby constitutes and appoints each of Michael Hsing, Saria Tseng and Meera Rao, signing singly, the undersigned's true and lawful attorney-in-fact to: (1) Complete and execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or stockholder of Monolithic Power Systems, Inc. (the "Company"), Forms ID, 3, 4, and 5 and other forms and all amendments thereto as such attorney-in-fact shall in his or her discretion determine to be required or advisable in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, or any successor laws and regulations, as consequence of the undersigned's ownership, acquisition or disposition of securities of the Company; (2) Do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such forms or amendment thereto and timely file such forms with the United States Securities and Exchange Commission (the "SEC") and any stock exchange or similar authority; and

(3) Take any other action of any type whatsoever which, in the opinion of such attorney-in-fact, may be necessary or desirable in connection with the foregoing authority, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve. The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms ID, 3, 4, and 5 with respect to the undersigned's holdings of and transaction in securities of the Company, unless earlier revoked by the undersigned in a signed writing delivered to the Company and the foregoing attorneys-in-fact. This Power of Attorney may be filed with the SEC as a confirming statement of the authority granted herein.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this day of July 25, 2011.

___James C. Moyer

Print Name of Reporting Person

___/s/James C. Moyer_____ Signature