FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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

1. Name ar  Moyer  (Last) 6409 GU  (Street) SAN JOS  (City)	MON [ MP' 3. Date 11/10	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]  3. Date of Earliest Transaction (Month/Day/Year) 11/10/2011  4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner  X Officer (give title Other (specify below) below)  Chief IC Design Engineer  5. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person								
(5)	(0		ip)	otivo S		ritio		auiro	4 Di	onesed o	f or D	onofici		ly Own					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yet)				n 2A Ex 'ear) if a	2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			or 5. Amount of Securities Beneficially Owned Following Reported		it of s lly	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code V		Amount	(D) Price		Transaction(s) (Instr. 3 and 4)									
Common Stock 11/10/201				11	1			S <sup>(1)</sup>		141	D	\$11.9	)	1,007,467		D			
Common Stock														483,383		I		by Moyer FamilyTrust	
	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. Transac Code (Ir 8)		5. Nu of Deriv Secul (A) oi Dispo of (D) (Instrand 5	ative rities ired sed	Expir. (Mont	ation I	/Year) Securities Underlying Derivative Security (Instr 3 and 4)  Amou or Numb of		t of ies ying ive y (Instr. )  Amount or Number	unt		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. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: James
Moyer

11/14/2011

\*\* 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.

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.