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 [*] Zhou Jeff						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								Check all	tionship of Reporting all applicable) Director		10	% Ov	wner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/14/2012										Officer (give title below)		below)		specify	
(Street)					4. lf	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individu ne)	- /					
SAN JOSE CA 95120														F	Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(St	ate) (Z	Zip)											F	Perso	on				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,) if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)			ies Acquired (A Of (D) (Instr. 3,			4 and Sec Ben Owr		cially 1	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount		(A) or (D)	Price	R	Following Reported Transaction(s) (Instr. 3 and 4)		((1150. 4)	
Common Stock				02/14/2012				Α		4,835(1)		Α	\$0.0		10,535		D			
Common Stock				02/14/2012				S		1,700		D	\$17.41		8,835		D			
Common Stock 02/14/20)12	2		S		300		D	\$17.401		8,535		D			
	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)	Execu if any			saction (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Expirat (Month	ion D		and 7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		ef 19	8. Price of Derivat Securit (Instr.	f derivativ erivative Securitie ecurity Beneficia		Owners Form: Direct (I or Indir (I) (Instr 4)	hip (I D) (ect (11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. According to the Company's 2004 Equity Incentive Plan and the Board Compensation Schedule as adopted by the Board on February 7, 2012, each Outside Director will be automatically granted Restricted Stock Units as of such date, if he or she will have served on the Board for at least the preceding six (6) months, with such grant to be effective as of the first day that the Company's trading window re-opens (or as of the date of the meeting of the Board or Compensation Committee, as applicable, if the Company's trading window is open on such date, subject to the Outside Director's continued service to the Board through such date.

Date

Exercisable

Expiration

Date

Title

By: Saria Tseng For: Jeff Zhou 02/16/2012

** Signature of Reporting Person Date

Amount or Number

Shares

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).

Code

V (A) (D)

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.