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 and Address of Reporting Person [*] CHANG KUO WEI HERBERT						2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]									all appl Direct	licable)		erson(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 08/16/2012									below			below)	
(Street)					4. lf A	4. If Amendment, Date of Original Filed (Month/Day/Year)									vidual or Joint/Group Filing (Check Applicable				
SAN JO	SAN JOSE CA 95119				-									Х	Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)																			
4	<u> </u>		le I	- Non-Deri				ies A	Acquire	ed, D				ially		d ount of	6.0	Ownership	7. Nature
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea				ear) Exe	ar) 2A. Deemo Execution if any (Month/Da			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			and 5) Secur Benet Owne		ties icially d	Form: Direct (D) or Indirect (I) (Instr. 4)		of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)			Repor Transa	Following Reported Transaction(s) (Instr. 3 and 4)		str. 4)	(Instr. 4)
Common Stock 08/16/2012									М		3,000	A	\$12.	86	9.	4,035		D	
Common Stock 08/16/2012					2			М		15,000	A	\$12.	16	10	09,035		D		
Common Stock 08/16/2012					2			S		18,000	D	\$21.42	78(1)	9	1,035		D		
		т	able	e II - Deriva (e.g., p							posed of , converti				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if ar	Deemed cution Date, iy nth/Day/Year)	4. Transaction Code (Instr 8)				Expiration I (Month/Day		Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		of Der Sec	Price rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indir (I) (Instr 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial) Ownership ct (Instr. 4)
					Code	ode V		(D)	Date Exerci	sable	Expiration Date	Title	Amoun or Numbe of Shares	er					
Non- Qualified Stock Option (right to buy)	\$12.16	08/16/2012			М		15,000		0 06/21	/2007	06/21/2016	Common Stock	15,00	0 5	\$0.0	0.0		D	
Non- Qualified Stock Option (right to buy)	\$12.86	08/16/2012			М			3,000	0 02/18	/2010	02/18/2016	Common Stock	3,000)	\$0.0	0.0		D	

Explanation of Responses:

1. 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 \$21.10 to \$21.80. 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: Saria Tseng For: Herbert 08/17/2012 Chang ** 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.