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* Ueunten Paul (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 06/18/2012									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Sr. V.P. Design Engineering				
(Street) SAN JOS (City)		CA 95120 (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	eI-	Non-Deriv	ative	Seci	ırities	Ac	quire	ed, D	isposed o	f, or E	Benefic	ially	Own	ed		
D			2. Transaction Date (Month/Day/Ye	ar) Ex	zA. Deemed Execution Date, if any (Month/Day/Year		3. Transaction Code (Instr.			4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4					icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								С	ode	v	Amount	(A) or (D)			Reported Transaction(s) (Instr. 3 and 4)			
Common	Stock			06/18/2012	2				S ⁽¹⁾		9,500	D	\$19.39)53 ⁽²⁾	1	31,933	D	
Common	Stock														1	53,556	I	Ueunten Trust I
Common Stock															1	13,900	I	Ueunten Trust II
Common Stock														26,000		26,000	I	Ueunten Trust III
Common Stock												26,0		26,000	I	Ueunten Trust IV		
		Та	ble	II - Derivat (e.g., pu							posed of, convertib				vned			
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any		4. Transa Code 8)		5. Nun of Deriva Securi Acquir (A) or Disport of (D) (Instr. and 5)	tive ties red sed	Expi (Moi	iration nth/Day	y/Year) Securities Underlying Derivative Security (Inst 3 and 4) Amou or Numb of		nt of ities lying stive ity (Instr. 4) Amount or Number	of Deri Secu (Inst	8. Price of derivative Security (Instr. 5) Owned Following Reported Transaction (Instr. 4)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. Price is the weighted average selling price of all sales by the reporting person on the transaction date. The range of selling prices was \$19.25 to \$19.45 per share.

By: Saria Tseng For: For: Paul 06/26/2012 <u>Ueunten</u>

** Signature of Reporting Person

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.