FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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

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) 08/10/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)										S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) Sr. V.P. Design Engineering 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deri 1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						on 2A. Dee			ar)	3. Transaction Code (Instr. 8)		4. Securities	es Acquired (ADF (D) (Instr. 3		A) or 5. So B O Fo R Tice		5. Am Secur Benef Owne Follor Repor	ount of ities icially d wing	6. Ownershi Form: Direc (D) or Indirect (I) (Instr. 4)		
Common	Stock			08/10/20	11					S ⁽¹⁾		719	D	\$1	1.80	49	12	23,329	D		
Common	Stock																1:	53,556	I	Ueunten Trust I	
Common	Stock																1	13,900	I	Ueunten Trust II	
Common Stock																	2	6,000	I	Ueunten Trust III	
Common Stock																	26,000		I	Ueunten Trust IV	
		Та	ble	II - Derivat								osed of, c				Ow	vned				
1. Title of Derivative Security (Instr. 3)	of 2. Conversion or Exercise Price of Derivative Security 3. Transaction Date Execution Date, if any (Month/Day/Year)		4. Tran	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, and 5)		nber itive ities red sed 3, 4		Exer ion [/Day/	cisable and late Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amour or Numbe			8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Beneficial Ownership				

Explanation of Responses:

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

By: Meera Rao For: Paul <u>Ueunten</u>

08/11/2011

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

 $^{^{\}star}$ 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).