



2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply:	<input type="checkbox"/> Promoter	<input checked="" type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input checked="" type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Hixson, Harry F., Jr.</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>c/o BrainCells Inc., 10835 Road to the Cure, Suite 150, San Diego, CA 92121</b>					
Check Box(es) that Apply:	<input type="checkbox"/> Promoter	<input checked="" type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input checked="" type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Gage, Fred H.</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>c/o BrainCells Inc., 10835 Road to the Cure, Suite 150, San Diego, CA 92121</b>					
Check Boxes that Apply:	<input type="checkbox"/> Promoter	<input checked="" type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Oxford Bioscience Partners, IV, L.P.</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>222 Berkeley Street, Suite 1650, Boston, MA 02116</b>					
Check Boxes that Apply:	<input type="checkbox"/> Promoter	<input type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input checked="" type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Fleming, Jonathan</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>222 Berkeley Street, Suite 1650, Boston, MA 02116</b>					
Check Boxes that Apply:	<input type="checkbox"/> Promoter	<input type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input checked="" type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Baron, Ellen</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>222 Berkeley Street, Suite 1650, Boston, MA 02116</b>					
Check Boxes that Apply:	<input type="checkbox"/> Promoter	<input checked="" type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Bay City Capital Fund IV, L.P.</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>750 Battery Street, Suite 600, San Francisco, CA 94111</b>					
Check Boxes that Apply:	<input type="checkbox"/> Promoter	<input type="checkbox"/> Beneficial Owner	<input type="checkbox"/> Executive Officer	<input checked="" type="checkbox"/> Director	<input type="checkbox"/> General and/or Managing Partner
Full Name (Last name first, if individual) <b>Goldfischer, Carl</b>					
Business or Residence Address (Number and Street, City, State, Zip Code) <b>750 Battery Street, Suite 600, San Francisco, CA 94111</b>					

Check  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
Box(es) that Apply:

Full Name (Last name first, if individual)  
**Schoeck, James**

Business or Residence Address (Number and Street, City, State, Zip Code)  
**e/o BrainCells Inc., 10835 Road to the Cure, Suite 150, San Diego, CA 92121**

Check  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
Box(es) that Apply:

Full Name (Last name first, if individual)  
**McGonigle, Paul**

Business or Residence Address (Number and Street, City, State, Zip Code)  
**e/o BrainCells Inc., 10835 Road to the Cure, Suite 150, San Diego, CA 92121**

Check Boxes  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
that Apply:

Full Name (Last name first, if individual)  
**Quy, Roger**

Business or Residence Address (Number and Street, City, State, Zip Code)  
**550 University Avenue, Palo Alto, CA 94301**

Check Boxes  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
that Apply:

Full Name (Last name first, if individual)  
**Funds associated with Technology Partners, L.P.**

Business or Residence Address (Number and Street, City, State, Zip Code)  
**550 University Avenue, Palo Alto, CA 94301**

Check Boxes  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
that Apply:

Full Name (Last name first, if individual)  
**Pappas, Arthur M.**

Business or Residence Address (Number and Street, City, State, Zip Code)  
**7030 Kit Creek Road, Research Triangle Park, NC 27709**

Check Boxes  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
that Apply:

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
Box(es) that Apply:

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check  Promoter  Beneficial Owner  Executive Officer  Director  General and/or Managing Partner  
Box(es) that Apply:

Full Name (Last name first, if individual)

**B. INFORMATION ABOUT OFFERING**

1. Has the issuer sold, or does the issuer intend to sell, to nonaccredited investors in this offering?..... Yes \_\_\_ No X  
 Answer also in Appendix, Column 2, if filing under ULOE.
  
2. What is the minimum investment that will be accepted from any individual?..... \$ N/A
  
3. Does the offering permit joint ownership of a single unit?..... Yes \_\_\_ No X
  
4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only.

NOT APPLICABLE

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States).....  All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[VA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States).....  All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[VA]	[WV]	[WI]	[WY]	[PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States).....  All States

[AL]	[AK]	[AZ]	[AR]	[CA]	[CO]	[CT]	[DE]	[DC]	[FL]	[GA]	[HI]	[ID]
[IL]	[IN]	[IA]	[KS]	[KY]	[LA]	[ME]	[MD]	[MA]	[MI]	[MN]	[MS]	[MO]
[MT]	[NE]	[NV]	[NH]	[NJ]	[NM]	[NY]	[NC]	[ND]	[OH]	[OK]	[OR]	[PA]
[RI]	[SC]	[SD]	[TN]	[TX]	[UT]	[VT]	[VA]	[VA]	[WV]	[WI]	[WY]	[PR]

**C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS**

1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero." If the transaction is an exchange offering, check this box  and indicate in the columns below the amounts of the securities offered for exchange and already exchanged.

Type of Security	Aggregate Offering Price	Amount Already Sold
Debt (Unsecured Convertible Promissory Notes).....	\$ <u>7,500,000.00</u>	\$ <u>3,750,000.00</u>
Equity .....	\$ _____	\$ _____
<input type="checkbox"/> Common <input type="checkbox"/> Preferred		
Convertible Securities (including warrants) (Warrants to purchase Preferred Stock).....	\$ <u>  *  </u>	\$ _____
Partnership Interests.....	\$ _____	\$ _____
Other (Specify _____)	\$ _____	\$ _____
Total.....	\$ <u>7,500,000.00</u>	\$ <u>3,750,000.00</u>

Answer also in Appendix, Column 3, if filing under ULOE.

2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total lines. Enter "0" if answer is "none" or "zero."

	Number Investors	Aggregate Dollar Amount of Purchases
Accredited Investors.....	<u>10</u>	\$ <u>3,750,000.00</u>
Non-accredited Investors.....	<u>-0-</u>	\$ <u>-0-</u>
Total (for filings under Rule 504 only).....	_____	\$ _____

Answer also in Appendix, Column 4, if filing under ULOE.

3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, in the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C- Question 1.

Type of Offering	Type of Security	Dollar Amount Sold
Rule 505 .....	_____	\$ _____
Regulation A.....	_____	\$ _____
Rule 504 .....	_____	\$ _____
Total.....	_____	\$ _____

4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is not known, furnish an estimate and check the box to the left of the estimate.

Transfer Agent's Fees.....	<input type="checkbox"/>	\$ _____
Printing and Engraving Costs.....	<input type="checkbox"/>	\$ _____
Legal Fees.....	<input checked="" type="checkbox"/>	\$ <u>25,000.00</u>
Accounting Fees.....	<input type="checkbox"/>	\$ _____
Engineering Fees.....	<input type="checkbox"/>	\$ _____
Sales Commissions (specify finders' fees separately).....	<input type="checkbox"/>	\$ _____
Other Expenses (Identify).....	<input type="checkbox"/>	\$ _____
Total.....	<input checked="" type="checkbox"/>	\$ <u>25,000.00</u>

\* Warrants to purchase Preferred Stock of the Issuer were issued in connection with the sale of the Unsecured Convertible Promissory Notes. The number of shares of Issuer Preferred Stock into which the Warrants may be exercised and the exercise price of the Warrants are based on a formula set forth in the Warrants that contemplates future values. Accordingly, the aggregate offering price and amount already sold with respect to the Warrants cannot be determined at this time.

**C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS**

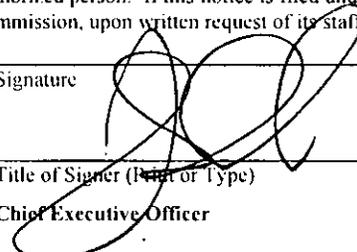
b. Enter the difference between the aggregate offering price given in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer"..... \$7,475,000.00

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C- Question 4.b above.

	Payment to Officers, Directors, & Affiliates	Payment To Others
Salaries and fees.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase of real estate.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Purchase, rental or leasing and installation of machinery and equipment.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Construction or leasing of plant buildings and facilities.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Acquisition of other businesses (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger).....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Repayment of indebtedness.....	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Working capital.....	<input type="checkbox"/> \$ _____	<input checked="" type="checkbox"/> \$ <u>7,475,000.00</u>
Other (specify): _____	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
_____	<input type="checkbox"/> \$ _____	<input type="checkbox"/> \$ _____
Column Totals.....	<input checked="" type="checkbox"/> \$ _____ 0	<input checked="" type="checkbox"/> \$ <u>7,475,000.00</u>
Total Payments Listed (column totals added).....	<input checked="" type="checkbox"/> \$ <u>7,475,000.00</u>	

**D. FEDERAL SIGNATURE**

The issuer had duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type) <b>BrainCells Inc.</b>	Signature 	Date December <u>15</u> , 2006
Name of Signer (Print or Type) <b>James Schoeneck</b>	Title of Signer (Print or Type) <b>Chief Executive Officer</b>	

**ATTENTION**

Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)

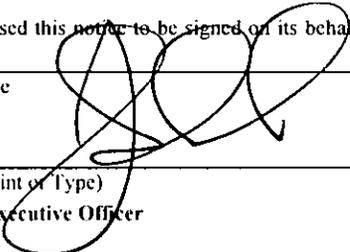
E. STATE SIGNATURE

1. Is any party described in 17 CFR 230.262 presently subject to any of the disqualification provisions of such rule?..... Yes No

See Appendix, Column 5, for state response.

2. The undersigned issuer hereby undertakes to furnish to the state administrator of any state in which the notice is filed, a notice on Form D (17 CFR 239.500) at such times as required by state law.
3. The undersigned issuer hereby undertakes to furnish to any state administrators, upon written request, information furnished by the issuer to offerees.
4. The undersigned issuer represents that the issuer is familiar with the conditions that must be satisfied to be entitled to the Uniform limited Offering Exemption (ULOE) of the state in which this notice is filed and understands that the issuer claiming the availability of this exemption has the burden of establishing that these conditions have been satisfied.

The issuer has read this notification and knows the contents to be true and has duly caused this notice to be signed on its behalf by the undersigned duly authorized person.

Issuer (Print or Type) <b>BrainCells Inc.</b>	Signature 	Date <b>December 15, 2006</b>
Name (Print or Type) <b>James Schoeneck</b>	Title (Print or Type) <b>Chief Executive Officer</b>	

*Instruction:*

Print the name and title of the signing representative under his signature for the state portion of this form. One copy of every notice on Form D must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

**APPENDIX**

1 State	2 Intend to sell to non-accredited investors in State (Part B-Item 1)		3 Type of security and aggregate offering price offered in state (Part C-Item 1)	4 Type of investor and amount purchased in State (Part C-Item 2)				5 Disqualification under State ULOE (if yes, attach explanation of waiver granted (Part E-Item 1))	
	Yes	No		Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
AL									
AK									
AZ									
AR									
CA		X	Convertible Notes and Warrants \$7,500,000	4	\$2,148,997.13	0	0		X
CO									
CT									
DE									
DC									
FL									
GA									
HI									
ID									
IL									
IN									
IA									
KS									
KY									
LA									
ME									
MD									
MA		X	Convertible Notes and Warrants \$7,500,000	2	\$1,074,498.57	0	0		X
MI									
MN									
MS									
MO									

**APPENDIX**

1 State	2 Intend to sell to non-accredited investors in State (Part B-Item 1)		3 Type of security and aggregate offering price offered in state (Part C-Item 1)	4 Type of investor and amount purchased in State (Part C-Item 2)				5 Disqualification under State ULOE (if yes, attach explanation of waiver granted (Part E-Item 1))	
	Yes	No		Number of Accredited Investors	Amount	Number of Non-Accredited Investors	Amount	Yes	No
MT									
NE									
NV									
NH									
NJ									
NM									
NY		X	Convertible Notes and Warrants \$7,500,000	1	\$42,979.94	0	0		X
NC		X	Convertible Notes and Warrants \$7,500,000	2	\$322,349.57	0	0		X
ND									
OH									
OK									
OR									
PA									
RI									
SC									
SD									
TN									
TX									
UT									
VT									
VA		X	Convertible Notes and Warrants \$7,500,000	1	\$161,174.79	0	0		X
WA									
WV									
WI									
WY									
PR									