

Account Opening Instructions and Important Information

Account Opening Instructions

Complete all sections of each form.

Industry regulations govern our policy and the information requested. Please ensure that you answer all questions and complete each form. Sections left blank may delay the processing procedure and the opening of your account. If you are applying for an option trading account, a margin agreement is required for most types of accounts. IRAs and Custodian accounts do not allow the use of margin, however if you are approved, do allow option trading. Be sure to include Power of Attorney or Trust Certificate forms as applicable to your account requirements.

Sign all forms.

Sign each form as required. Forms without appropriate signatures will be returned and result in a delay in processing your account. If you are opening a joint account, both parties must sign.

Fund your account.

Domestic Accounts

There is no minimum investment for non-retirement and IRA accounts. Accounts may be funded by check, wire transfer, electronic transfer (ACH), stock certificate, or account transfer.

International Accounts

Investrade Discount Securities requires a low minimum initial requirement to open an International account. We accept unsolicited accounts from non-U.S. residents from the following countries: Austria, Australia, China, Germany, Ireland, Luxembourg, Mexico, Netherlands, New Zealand, Singapore, South Africa, Switzerland and the United Kingdom (England, Northern Ireland, Scotland and Wales). Cash accounts can be opened with a minimum of \$5,000.00 in any combination of US Dollars and/or US/foreign exchange traded securities. Some foreign securities may be ineligible. Cash accounts may only be approved to write covered calls and/or buy calls and puts. Please call 1-847-375-6024 for more information.

International Margin and Spread trading accounts require an additional security deposit of \$5,000.00 that will be held in your account separately from the funds you will be using for trading and will not count towards your buying power or equity figures. The funds will be reflected in your monthly statements. Margin is required in order to be approved for spread trading. For International accounts that wish to trade uncovered puts, the security deposit will be an additional \$10,000.00.

International Clients may wire funds or may choose to transfer funds from a US based brokerage firm. Foreign stocks can be held and sold, and, Investrade Discount Securities can purchase some, but not all, foreign securities. All Investrade Discount Securities accounts deal in US dollars and are based only on cleared funds. Receipt of a wire transfer from a US affiliated bank constitutes "cleared funds".

Important Note for International Accounts: To ensure prompt and efficient service we encourage our international clients to contact us via E-mail: support@investrade.com.

Choose a money market fund.

Choose one money market fund and select your choice on the account application in the Account Service Instructions area. Settled cash balances are automatically swept into your money market account so that you can earn interest on your available funds. When you purchase securities, funds will be drawn automatically from your money market account; there is no charge for this service. Before making a choice, we recommend that you check the current money market rates on our web site at www.investrade.com.

Depositing Funds and Securities

Funds and securities are required in advance. Sufficient buying power or cleared funds are required before any buy order can be accepted. Cleared securities must be in your account before any sell order will be accepted.

Account processing will occur within one (1) business day after receipt of account paperwork. Once your account has been approved, cleared funds are required to begin trading. All checks including certified and cashier's checks require ten (10) business days before the funds are available for investing.

Checks

All checks must be made payable to Penson Financial Services, Inc. Include your account number on all checks. **Money orders, third party checks, credit card checks, home equity line checks and starter checks are not accepted.** All checks must be US dollars.

Stock Certificates

1. Appoint Penson Financial Services, Inc. as attorney.
2. Sign the certificate. Signature(s) must be the same as the name(s) on the front of the certificate(s).
3. Write your account number in the upper right-hand corner on the front of each certificate.

Domestic Wire Transfer Instructions

JP Morgan Chase Bank
ABA#: 021000021
F/A Penson Financial Services
Bank Account #: 066-6-00030
For further credit to: (Customer Account #), (Customer Name)

International Wire Transfer Instructions*

Chase Manhattan Bank, NYC
Swift # CHASUS33
FAO Penson Financial Services
A/C #: 066600030
For further credit to: Penson Financial Services, Inc., (Customer Account #), (Customer Name)

*Funds wired to a bank not affiliated with the US will incur a \$40.00 charge. Funds wired to a US affiliated bank outside the US will be charged \$20.00.

Customer Identification Program

To help the government fight the funding of terrorism and money laundering activities, federal law (the US Patriot Act) requires all financial organizations to obtain, verify and record information that identifies each person who opens an account along with any of their authorized agents and the source of initial funds. When you open an account, we will ask for your name, address, date of birth and other information that will allow us to identify you. We will ask you to provide a valid driver's license number or other approved identifying documents. We require that you provide a copy of other identifying documents if you do not have a driver's license. If you do not have a valid driver's license, please provide one of the following forms of identification:

- Passport
- State Identification Card
- Military Identification Card
- Alien Registration Number
- Green Card
- National Identification Card
- Other Government Identification

International applicants are required to complete a W-8BEN form and provide a copy of their non-expired passport for identification. In addition, please provide a copy of your current bank statement or utility bill to confirm name and address on the account application.

FINRA Public Disclosure Program

FINRA has a program, Broker Check, whereby you may obtain information about a member firm and its representatives, including the availability of registered person's disciplinary actions. You may obtain information by calling the FINRA Public Disclosure program's hotline at 1-800-289-9999 or by going to the FINRA Regulation web site at <http://www.finra.org/investors/index.htm> to review the investor brochure that includes the public disclosure program. Customers may also access the FINRA manual at <http://finra.complanet.com/> or the Investrade Discount Securities website for additional information.

Securities Investor Protection Corporation (SIPC)

Regal Securities, Inc. is a member of SIPC, the Securities Investor Protection Corporation. SIPC was created by Congress in 1970 and is an important source of investor protection. You may obtain more information, including the SIPC brochure, by contacting SIPC at 202-371-8300 or by visiting the SIPC web site at www.sipc.org.

Quarterly Order Routing Reports

Regal Securities, Inc. is required to make available quarterly reports that present a general overview of our routing practices and identify the significant venues to which customer orders were routed for execution during the applicable quarter. Customers may also request a written copy of this report.

Complaint Inquiries

Customer complaints and changes to your account record should be directed to our Customer Service Department at 1-800-498-7120 or in writing: Investrade Discount Securities, 950 Milwaukee Ave., Ste. 102, Glenview, IL 60025.

Privacy Notice

Investrade Discount Securities provides investment brokerage services by means of its own internal operation and those of its clearing firm and other unaffiliated third party providers such as mutual funds and variable product sponsors. Investrade Discount Securities acts as an introducing broker to its clearing firm which in turn processes the transactions and acts as the account custodian. All of the above named parties receive and maintain information about you that is related to and necessary for processing investments in your account.

Where do We Obtain the Information

The information that we have comes directly from you. This includes such information as your name, address and Social Security Number that you provided on applications, agreements or other forms. In addition, we maintain records of each of your transactions and holdings processed by us.

We also may obtain information about you, such as your credit history or other facts relating to creditworthiness, from a consumer-reporting agency.

To Whom Do We Disclose the Information

Investrade Discount Securities does not sell your non-public personal information. We provide information about current or former clients from the sources described above to parties outside of this firm only as described below:

To other companies as necessary to process your business. For example, we process your mutual fund and variable product transactions through product providers with whom we have dealer selling agreements. If you have a trading account, the information that we obtained from you is given to the clearing firm for purposes of facilitating securities trading and statement preparation. These parties must limit their use of the information to the purpose for which it was provided.

Where required by law or regulation. Examples include responses to a subpoena, court order or regulatory demand.

As authorized by you. You may direct us, for example, to send account statements or other account information to a third party.

As otherwise authorized or permitted by law. For example, the law permits us to respond to a request for information about you from a consumer-reporting agency.

Confidentiality and Security

We restrict access to information about you to those employees and authorized agents who need to know that information in order to provide products or services to you. We maintain physical, electronic and procedural safeguards to maintain the confidentiality of your information.

Account Number: _____

Type of Registration			
<input type="checkbox"/> Individual	<input type="checkbox"/> Joint Tenants - WROS	<input type="checkbox"/> Tenants in Common	<input type="checkbox"/> Community Property
<input type="checkbox"/> Custodian	<input type="checkbox"/> Trust	<input type="checkbox"/> Estate	<input type="checkbox"/> Retirement, Type: _____
<input type="checkbox"/> Corporate	<input type="checkbox"/> Partnership	<input type="checkbox"/> Investment Club	<input type="checkbox"/> LLC

SECTION 1: Primary Applicant Information					
Full Name		Citizenship <input type="checkbox"/> US <input type="checkbox"/> Other _____ <input type="checkbox"/> Resident Alien <input type="checkbox"/> Non-Resident Alien		Social Security or Tax ID #	
Address		City, State, Zip			Date of Birth
Mailing Address (if different than above)		Business Phone		Home Phone	
E-mail Address				Fax Number	
Employer Name and Address				Occupation/Type of Business	
Driver's License Number		State of Issuance		Expiration Date (mm/dd/yyyy)	
Passport Number (if no driver's license)		Country of Issuance		Expiration Date (mm/dd/yyyy)	
Other Documentation (Description)		Country of Issuance		Expiration Date (mm/dd/yyyy)	
How did you hear about us?					
Are you or joint applicant an employee of a bank, trust company, insurance company, securities firm, member of a stock exchange or the FINRA? <input type="checkbox"/> YES <input type="checkbox"/> NO _____ If YES, Name of Firm or Institution			Are you or joint applicant a director, a 10% or greater shareholder, policy making or executive officer of a publicly traded company? <input type="checkbox"/> YES <input type="checkbox"/> NO _____ If YES, Name of Firm or Institution		
Income		Net Worth (excluding primary residence)		Liquid Net Worth (cash, equity, securities, bonds, etc.)	
<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999	<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999	<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999
<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999	<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999	<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999
<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000	<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000	<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000
<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over	<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over	<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over

SECTION 2: Joint Applicant Information					
Full Name		Citizenship <input type="checkbox"/> US <input type="checkbox"/> Other _____ <input type="checkbox"/> Resident Alien <input type="checkbox"/> Non-Resident Alien		Social Security or Tax ID #	
Address		City, State, Zip			Date of Birth
Mailing Address (if different than above)		Business Phone		Home Phone	
E-mail Address				Fax Number	
Employer Name and Address				Occupation/Type of Business	
Driver's License Number		State of Issuance		Expiration Date (mm/dd/yyyy)	
Passport Number (if no driver's license)		Country of Issuance		Expiration Date (mm/dd/yyyy)	
Other Documentation (if no driver's license)		Country of Issuance		Expiration Date (mm/dd/yyyy)	
Income		Net Worth (excluding primary residence)		Liquid Net Worth (cash, equity, securities, bonds, etc.)	
<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999	<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999	<input type="checkbox"/> \$0 - \$25,000	<input type="checkbox"/> \$125,000 - \$249,999
<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999	<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999	<input type="checkbox"/> \$25,000 - 39,999	<input type="checkbox"/> \$250,000 - \$499,999
<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000	<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000	<input type="checkbox"/> \$40,000 - \$64,999	<input type="checkbox"/> \$500,000 - \$1,000,000
<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over	<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over	<input type="checkbox"/> \$65,000 - \$124,999	<input type="checkbox"/> \$1,000,000 - Over

SECTION 3: Account Information

<p align="center">Investment Objective and Risk Tolerance (CHOOSE ONLY ONE)</p> <p><input type="checkbox"/> Growth and Income/Conservative: Provides income and the growth of principal.</p> <p><input type="checkbox"/> Long Term Growth/Moderate: Provides capital appreciation with an increased level of risk.</p> <p><input type="checkbox"/> Short Term Growth/Aggressive: Provides capital appreciation with a high level of risk</p> <p><input type="checkbox"/> Speculative/Highest Risk: Provides the potential for significant appreciation; must be willing to accept a greater risk of loss of principal and the highest degree of risk.</p>	<p align="center">Tax Bracket</p> <p><input type="checkbox"/> 10% <input type="checkbox"/> 28%</p> <p><input type="checkbox"/> 15% <input type="checkbox"/> 33%</p> <p><input type="checkbox"/> 25% <input type="checkbox"/> 36% or above</p> <hr/> <p>Number of Dependents: Marital Status:</p>
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Investment Experience				Payment Instructions		
	Yrs.	Avg. Size	Avg. # Trades/Yr.	Securities	Monies	Dividends
Options:				<input type="checkbox"/> Transfer and Ship	<input type="checkbox"/> Pay	<input type="checkbox"/> Pay
Stocks:				<input type="checkbox"/> Hold St. Name	<input type="checkbox"/> Hold	<input type="checkbox"/> Pay Monthly
Bonds:				Principal & Maturity:	<input type="checkbox"/> Credit to Account	<input type="checkbox"/> Hold
Commodities:						<input type="checkbox"/> Paid Weekly
Others (specify):				Money Market Sweeps:	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="checkbox"/> Paid Monthly
If Yes, Check Fund Below.						

When I purchase or sell, you are authorized to sweep to the following money market fund:

<input type="checkbox"/> California Daily Tax Free Income Fund	<input type="checkbox"/> Daily Income Fund Municipal Portfolio Retail & Short Term Income Shares Classes	<input type="checkbox"/> Institutional Daily Income Fund Money Market Portfolio*
<input type="checkbox"/> Connecticut Daily Tax Free Income Fund	<input type="checkbox"/> Florida Daily Municipal Income Fund	<input type="checkbox"/> Institutional Daily Income Fund US Treasury Portfolio*
<input type="checkbox"/> Daily Income Fund Money Market Portfolio	<input type="checkbox"/> New Jersey Daily Municipal Income Fund	* Initial requirement of \$1 million.
<input type="checkbox"/> Daily Income Fund US Government Portfolio	<input type="checkbox"/> New York Daily Tax Free Income Fund	For a complete prospectus go to www.money-funds.com/Investrade .
<input type="checkbox"/> Daily Income Fund Municipal Portfolio		

Duplicate Confirmations

Please send Duplicate Confirms to the following Address:

Disclosure of Name/Address on Securities You Own

Under rule 14b-1(c) of the Securities Exchange Act, we are required to disclose to an issuer the name, address, and securities position of our customers who are beneficial owners of that issuer's securities unless the customer objects. Please check below if you do not want your ownership disclosed.

I object to the disclosure of such information.

Banking References

Bank-Branch	City, State	Account Number
Other Brokerage Accounts	City, State	Account Number

Source of Funds

<input type="checkbox"/> Income From Earnings	<input type="checkbox"/> Investment Proceeds	<input type="checkbox"/> Gift, specify: _____	<input type="checkbox"/> Sale of Business
<input type="checkbox"/> Inheritance, specify: _____	<input type="checkbox"/> Legal Settlement	<input type="checkbox"/> Pension/IRA/Retirement Savings	<input type="checkbox"/> Spouse/Parent
<input type="checkbox"/> Lottery/Gaming	<input type="checkbox"/> Disability Payments	<input type="checkbox"/> Insurance Proceeds	<input type="checkbox"/> Other: _____

Certification of Taxpayer ID Number (Substitute W-9)

Check appropriate box: Individual/Sole Proprietor S-Corporation C-Corporation Partnership Other _____ Exempt from Backup Withholding

Under penalty of perjury, I certify that:

(1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me) **and**

(2) I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding (does not apply to real estate transactions, mortgage interest paid, the acquisition or abandonment of secured property, contributions to an individual retirement account (IRA), and payments other than interest and dividends).

(3) I am a U.S. person (including a U.S. resident alien).

Certification Instructions - You must cross out item (2) above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return.

SECTION 4: Signatures

In consideration of your accepting this account, I hereby acknowledge that I understand and agree to the terms set forth in the Customer Agreement (including the predispute arbitration clause, a copy of which I have received) and the Certification Statement, which I have both read. All persons must sign if this is a joint account. **I UNDERSTAND THAT THE INTERNAL REVENUE SERVICE DOES NOT REQUIRE MY CONSENT TO ANY PROVISIONS OF THIS DOCUMENT OTHER THAN THE CERTIFICATIONS REQUIRED TO AVOID BACKUP WITHHOLDING.**

Primary Applicant Signature	Date	Joint Applicant Signature	Date
Joint Applicant Signature	Date	Joint Applicant Signature	Date

Office Use Only

Account Number	Registered Representative	Rep. Code	Office Code
Approved By:			Date

Client Name: _____

Account Number: _____

Date of Delivery of Privacy Policy: _____

For use by entity accounts only (i.e. corporations, partnerships, trusts): Is this account for a foreign bank? Yes / No

If yes, please list Agent for service of process:

Is this account for a foreign shell bank? Yes / No

Does this firm offer services to a foreign shell bank? Yes / No

If you answered yes to any of the above questions, Corporation will need to complete Certification Regarding Correspondent Accounts.

Print Name: _____

Signature: _____

Title: _____

Date: _____

Print Name: _____

Signature: _____

Title: _____

Date: _____

To Investrade Discount Securities:

In consideration of your opening one or more accounts on my behalf, I represent and agree as follows:

1. I am of legal age, authorized to enter into this agreement, and except as otherwise disclosed to you, I am not an employee of any exchange or a member firm of any exchange or the FINRA, and that I will promptly notify you if I become so employed.
2. I appoint you as my agent for the purpose of carrying my directions to you in accordance with the terms and conditions of my agreement with you for my account and risk with respect to the purchase or sale of securities. To carry out your duties, you are authorized to open or close brokerage accounts, place and withdraw orders, and take such other steps as are reasonable to carry out my directions.
3. I understand that Pension Financial Services, Inc. will execute and clear all transactions under this agreement.
4. I understand that you provide no investment advice in connection with the account nor do you give advice or offer any opinion with respect to the suitability of any security or order unless the account is otherwise specifically approved for participation in mutual funds, bonds, and/or preferred stock transactions. All transactions will be done only on my order or my authorized delegate, except as described in paragraph 8.
5. This is to confirm my intention to reinvest cash credit balances held by you in my name, and I further confirm that this cash credit balance is being maintained with you solely for the purpose of reinvestment. I understand that cash balances of up to \$250,000 are protected by the Securities Investor Protection Corporation (SIPC), but that SIPC coverage is not available for funds maintained solely for the purpose of earning interest.
6. Account Protection. Investrade Discount Securities is a division of Regal Securities, Inc., a member of the Securities Investor Protection Corporation (SIPC), and as a member of the SIPC, funds are available to meet customer claims up to a ceiling of \$500,000, including a maximum of \$250,000 for cash claims. For additional information regarding SIPC coverage, including a brochure, please contact SIPC at (202) 371-8300 or visit www.sipc.org. Our clearing firm has purchased an additional insurance policy through a group of London Underwriters (with Lloyd's of London Syndicates as the Lead Underwriter) to supplement SIPC protection. This additional insurance policy becomes available to customers in the event that SIPC limits are exhausted and provides protection for securities and cash up to an aggregate of \$600 million. This is provided to pay amounts in addition to those returned in a SIPC liquidation. This additional insurance policy is limited to a combined return to any customer from a Trustee, SIPC and London Underwriters of \$150 million, including cash of up to \$2.15 million. Similar to SIPC protection, this additional insurance does not protect against a loss in the market value of securities.
7. Whenever in your discretion you consider it necessary for your protection, or for the protection of the undersigned's introducing firm or in the event of, but not limited to; (i) any breach by the undersigned of this or any other agreement with you or (ii) the undersigned's failure to pay for securities and other property purchased or to deliver securities and other property sold, you may sell any or all securities and other property held in any of the undersigned's accounts (either individually or jointly with others), cancel or complete any open orders for the purchase or sale of any securities and other property, and/or borrow or buy-in any securities and other property required to make delivery against any sale, including a short sale, effected for the undersigned, all without demand for deposit of collateral, other notice of sale or purchase, or other notice or advertisement, each of which is expressly waived by the undersigned, and/or you may require the undersigned to deposit cash or adequate collateral to the undersigned's account prior to any settlement date in order to assure the performance or payment of any open contractual commitments and/or unsettled transactions. Any and all securities and other property belonging to the undersigned or in which the undersigned may have an interest held by you or carried in any of the undersigned's accounts with you (either individually or

- jointly with others) shall be subject to a first and prior security interest and lien for the discharge of the undersigned's obligations to you, wherever or however arising and without regard to whether or not you have made advances with respect to such securities and other property, and you are hereby authorized to sell and/or purchase any and all securities and other property in any of the undersigned's accounts, and/or to transfer any such securities and other property among any of the undersigned's accounts to the fullest extent of the law and without notice where allowed. The costs and expenses of collection of the debit balance and any unpaid deficiency in the accounts of the undersigned with you, including but not limited to reasonable attorneys' fees and expenses, incurred and payable or paid by you shall be payable to you by the undersigned.
8. You are authorized, in your discretion, should you for any reason whatsoever deem it necessary for your protection, without notice, to cancel any outstanding order, to close out the accounts of the undersigned, in whole or in part, or to close out any commitment made on behalf of the undersigned.
9. I understand and agree that any telephone conversation with you will be recorded for accuracy.
10. In the event I become indebted to you in the course of operation of this account, I agree that I will repay such indebtedness upon demand. I agree that if after demand I fail to pay the indebtedness, you may close my account and liquidate the assets in my account on a pro rata basis in an amount sufficient to pay my indebtedness. If Customer also holds a futures account with Pension Financial Futures, Inc. ("PFFI"), Customer hereby authorizes Pension, without prior notice, to transfer from any account held with Pension to any account held with PFFI, any assets that PFFI represents to Pension are reasonably required to avoid the calling of margins for such PFFI account or the payment of any obligations owed Pension by Customer. Customer also authorizes Pension to request from PFFI assets held by PFFI that in Pension's judgment may be reasonably required to avoid the calling of margins for a Pension account or the payment of any obligations owed Pension by Customer.
11. Upon the purchase or sale of any security, if you are unable to settle the transaction by reason of my failure to make payment or deliver securities in good form, I authorize you to take steps necessary to complete the transaction, in which event I agree to reimburse you for all costs, losses or liabilities incurred by you.
12. This agreement and all transactions made in my account shall be governed by the laws of the state of Texas (regardless of the choice of law rules thereof).
13. I agree that neither Pension nor Investrade Discount Securities and its affiliates will be liable for any consequential, incidental, special, or indirect damage (including lost profits, trading losses, and damages) which result or indirectly from inconvenience, delay, or loss of service; a cause over which Pension or Investrade Discount Securities or its affiliates does not have direct control, including, but not limited to, failure of electronic or government restriction(s), exchange or market rules, and "force majeure" (i.e. war, strike, riot, flood, fire, extraordinary weather, or other act of God), or any other condition beyond its control even if Investrade Discount Securities has been advised of the possibility of such damages.
14. The reasonable costs of collection of the debit balance and any unpaid deficiency in my accounts, including attorney's fees incurred by you, shall be reimbursed by me to you.
15. I agree to have available or agree to deliver sufficient funds to cover the amount due on purchases by 2:00 p.m. Eastern Time on settlement date, and I agree to deliver any securities I have in my possession in sufficient time to be received by Investrade Discount Securities one day before settlement date.
16. In consideration of your carrying a joint account for the undersigned, the undersigned jointly and severally agree that each of them shall have authority on behalf of the joint account to buy, sell (including short sales) and otherwise deal in, through you as brokers, stocks, bonds, and other securities on margin or otherwise; to receive on behalf of the joint account demands, notices, confirmations, reports, statements of account and communications of every kind; to receive on behalf of the joint account money, securities and property of every kind and to dispose of same; to make on behalf of joint account agreements relating to any of the foregoing matters and to

- terminate or modify same or waive any of the provisions thereof; and generally to deal with you on behalf of the joint account as fully and completely as if he alone were interested in said account, all without notice to the other or others interested in said account. You are authorized to follow the instructions of any of the undersigned in every respect concerning the said joint account with you and to make deliveries to any of the undersigned, or upon his instructions, of any or all securities in said joint account, and to make payments to any of the undersigned, or upon his order, of any or all monies at any time or from time to time in the said joint account as he may order and direct, for the benefit of the joint account. Notwithstanding the foregoing, you are authorized in your discretion to require joint action by the joint tenants with respect to any matter concerning the joint account, including but not limited to the giving or cancellation of orders and the withdrawal of money, securities, futures or commodities. The authority hereby conferred shall remain in force until written notice of the revocation addressed to you is delivered at your main office.
17. The liability of the undersigned with respect to said account shall be joint and several. The undersigned further agrees jointly and severally that all property you may at any time be holding or carrying for any one or more of the undersigned shall be subject to a lien in your favor for the discharge of the joint account to you, such lien to be in addition to and not in substitution of the rights and remedies you otherwise would have.
 18. It is further agreed that in the event of death of either of any of the undersigned, the survivor or survivors shall immediately give you written notice thereof, and you may, before or after receiving such notice, take such proceedings, require such papers and inheritance or estate tax waivers, and retain such portion of and/or restrict transactions in the account as you may deem advisable to protect you against any tax, liability, penalty or loss under any present or future laws or otherwise. The estate of any of the undersigned who shall have died shall be liable, and each survivor shall continue liable jointly and severally, to you for any net debit balance or loss in said account in any way resulting from the completion of transactions initiated prior to the receipt by you of the written notice of the death of the decedent or incurred in the liquidation of the account or the adjustment of the interests of the respective parties.
 19. The proceeds of all sales transactions and dividends paid will be reported to the Internal Revenue Service (IRS) in accordance with applicable law.
 20. The undersigned (1) certifies that the information contained in this application is complete, true and correct, and acknowledges that knowingly giving false information for the purpose of inducing Investrade Discount Securities to extend credit is a federal crime; (2) authorizes Investrade Discount Securities to contact any individual or firm noted herein and any other normal sources of debit or credit information; (3) authorizes anyone so contacted to furnish such information to Investrade Discount Securities as Investrade Discount Securities may request; (4) agrees that this application is the property of Investrade Discount Securities and Investrade Discount Securities may retain this application in its record at its sole discretion, whether or not credit is extended.
 21. "Unless otherwise instructed, Penson Financial Services, Inc. routes equity orders taking into consideration, among other factors, the quality and speed of execution as well as the credits and cash payments receivable from the New York Stock Exchange, Inc. and other market centers. Equity orders are generally eligible for possible price improvement. Specialists and Dealers accomplish this by exposing the order to competition, size guarantees or by stopping the order temporarily at the current inside bid or offer and providing the Specialist or Dealer the opportunity to improve the price. The nature and source of any payments and/or credits received in connection with your specific transactions will be furnished upon written requests."
 22. If any provision hereof is or at any time should be inconsistent with any present or future law, rule or regulation of any securities exchange or of any sovereign government or a regulatory body thereof, and if any of these bodies have jurisdiction over the subject matter of this agreement, said provision shall be deemed to be superseded or modified to conform to such law, rule, or regulation, but in all other respects, this Agreement shall continue and remain in full force and effect.
 23. I understand market data, including stock price quotations, are obtained from independent pricing services believed to be reliable. I agree that Penson or Investrade Discount Securities cannot and do not guarantee the accuracy of such data and will not be liable for any consequential, incidental, special, or indirect damages (including lost profits, trading losses, and damages) which result from reliance upon the same. The undersigned expressly agrees that any data or online reports is provided to the undersigned without warranties of any kind, express or implied, including but not limited to, the implied warranties of merchantability, fitness of a particular purpose or non-infringement. The undersigned acknowledges that the information contained in any reports provided by you is obtained from sources believed to be reliable but is not guaranteed as to its accuracy or completeness. Such information could include technical or other inaccuracies, errors or omissions. In no event shall you or any of your affiliates be liable to the undersigned or any third party for the accuracy, timeliness, or completeness of any information made available to the undersigned or for any decision made or taken by the undersigned in reliance upon such information. In no event shall you or your affiliated entities be liable for any special incidental, indirect or consequential damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not advised of the possibility of damages, and on any theory of liability, arising out of or in connection with the use of any reports provided by you or with the delay or inability to use such reports.
 24. You may send communications to the undersigned at the undersigned's address or at such other address as the undersigned may hereafter give you in writing, and all communications so sent, whether by mail, telegraph, or otherwise, shall be deemed given to the undersigned personally, whether actually received or not. Reports of execution of orders and statements of accounts of the undersigned shall

be conclusive if not objected to in writing to you, the former within five (5) days and the latter within ten (10) days, after forwarding by you.

25. THE FOLLOWING ARBITRATION AGREEMENT SHOULD BE READ IN CONJUNCTION WITH THESE DISCLOSURES:

- a. **ALL PARTIES TO THIS AGREEMENT ARE GIVING UP THE RIGHT TO SUE EACH OTHER IN COURT, INCLUDING THE RIGHT TO A TRIAL BY JURY EXCEPT AS PROVIDED BY THE RULES OF THE ARBITRATION FORM IN WHICH A CLAIM IS FILED;**
- b. **ARBITRATION AWARDS ARE GENERALLY FINAL AND BINDING; A PARTY'S ABILITY TO HAVE A COURT REVERSE OR MODIFY AN ARBITRATION AWARD IS VERY LIMITED.**
- c. **THE ABILITY OF THE PARTIES TO OBTAIN DOCUMENTS, WITNESS STATEMENTS AND OTHER DISCOVERY IS GENERALLY MORE LIMITED IN ARBITRATION THAN IN COURT PROCEEDINGS;**
- d. **THE ARBITRATORS DO NOT HAVE TO EXPLAIN THE REASON(S) FOR THEIR AWARD.**
- e. **THE PANEL OF ARBITRATORS WILL TYPICALLY INCLUDE A MINORITY OF ARBITRATORS WHO WERE OR ARE AFFILIATED WITH THE SECURITIES INDUSTRY.**
- f. **THE RULES OF SOME ARBITRATION FORUMS MAY IMPOSE TIME LIMITS FOR BRINGING A CLAIM IN ARBITRATION. IN SOME CASES, A CLAIM THAT IS INELIGIBLE FOR ARBITRATION MAY BE BROUGHT IN COURT.**
- g. **THE RULES OF THE ARBITRATION FORUM IN WHICH THE CLAIM IS FILED, AND ANY AMENDMENTS THERETO, SHALL BE INCORPORATED INTO THIS AGREEMENT.**
- h. **ARBITRATION AGREEMENT. ANY AND ALL CONTROVERSIES, DISPUTES OR CLAIMS BETWEEN THE UNDERSIGNED AND YOU, OR THE INTRODUCING BROKER, OR THE AGENTS, REPRESENTATIVES, EMPLOYEES, DIRECTORS, OFFICERS OR CONTROL PERSONS OF YOU OR THE INTRODUCING BROKER, ARISING OUT OF, IN CONNECTION WITH, FROM OR WITH RESPECT TO (a) ANY PROVISIONS OF OR THE VALIDITY OF THIS AGREEMENT OR ANY RELATED AGREEMENTS, (b) THE RELATIONSHIP OF THE PARTIES HERETO, OR (c) ANY CONTROVERSY ARISING OUT OF YOUR BUSINESS, THE INTRODUCING BROKER'S BUSINESS OR THE UNDERSIGNED'S ACCOUNTS, SHALL BE CONDUCTED PURSUANT TO THE CODE OF ARBITRATION PROCEDURE OF THE FINRA. ARBITRATION MUST BE COMMENCED BY SERVICE OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE. THE DECISION AND AWARD OF THE ARBITRATOR (S) SHALL BE CONCLUSIVE AND BINDING UPON ALL PARTIES, AND ANY JUDGMENT UPON ANY AWARD RENDERED MAY BE ENTERED IN A COURT HAVING JURISDICTION THEREOF, AND NEITHER PARTY SHALL OPPOSE SUCH ENTRY.**

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any pre-dispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is de-certified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.

- 26. Important information about procedures for Opening a New Account.** To help the US government fight the funding of terrorism and money laundering activities, Federal law requires all financial institutions to obtain, verify, and record information that identifies each person who opens an account. What this means for you: When you open an account, we will ask for your name, address, date of birth and other information that will allow us to identify you. We may also ask to see your driver's license or other identifying documents.

NOTICE TO PENSON FINANCIAL SERVICES, INC.

The undersigned understands that you are carrying the accounts of the undersigned as clearing broker by arrangement with the undersigned's introducing broker through whose courtesy the account of the undersigned has been introduced to you. Until receipt from the undersigned of written notice to the contrary, you may accept from and rely upon the undersigned's introducing broker for (a) orders for the purchase or sale in said account of securities and other property, and (b) any other instructions concerning the undersigned's accounts. The undersigned represents that the undersigned understands that you act only to clear trades introduced by the undersigned's introducing broker and to effect other back office functions for the undersigned's introducing broker. The undersigned confirms to you that the undersigned is relying for any advice concerning the undersigned's accounts solely on the undersigned's introducing broker. The undersigned understands that all representatives, employees and other agents with whom the undersigned communicates concerning the undersigned's account are agents of the introducing broker, and not your representatives, employees or other agents. The undersigned understands that you are not a principal or partner with, and do not control in any way, the introducing broker or its representatives, employees or other agents. The undersigned understands that you will not review the undersigned's accounts and will have no responsibility for trades made in the undersigned's accounts. You shall not be responsible or liable for any acts or omissions of the introducing broker or its representatives, employees or other agents. Notwithstanding the foregoing, in the event that the undersigned initiates a claim against you in your capacity as clearing broker and does not prevail, the undersigned shall be responsible for the costs and expenses associated with your defense of such claim.



950 Milwaukee Ave., Ste. 102
 Glenview, IL 60025
Tel: 1-800-498-7120
Fax: 1-877-367-8466
Web: www.investrade.com

Limited Liability Company (LLC) Authorization

To: Penson Financial Services, Inc.

You are authorized and empowered to open and carry an account in the name of: _____
 _____ (Name of Limited Liability Company) a Limited Liability Company (LLC) organized
 under the laws of _____ and having its principal place of business in _____
 _____.

This LLC is managed by its Member(s) Manager(s) (please check one). This LLC is empowered to (i) establish a Cash Account Margin Account (please check one) for the purchase and sale (including short sales if this is a margin account) of stocks, bonds, options and other securities, commodities and commodity futures, on margin (if this is a margin account) or otherwise, on exchanges of which you are members or otherwise. The Account shall be governed by the terms and conditions of the Penson Financial Services Client Agreement.

Any of the following persons, to-wit:

1. _____
(Person Authorized to Give Orders)
2. _____
(Person Authorized to Give Orders)
3. _____
(Person Authorized to Give Orders)
4. _____
(Person Authorized to Give Orders)

is hereby authorized to give written or oral instructions by telephone or otherwise to you to buy or sell (including short sales if this is a margin account) stocks, bonds, options and other securities, commodities and commodity futures, either for immediate or future delivery, and to borrow money in the name of this LLC from or through you, and to secure payment therefore with property of this LLC from or through you, and to secure payment therefore with property of this LLC. Any of the persons above named shall at all times have authority in every way to bind and obligate this LLC for the carrying out of any contract, arrangement or transaction which he or she shall, for or on behalf of this LLC, enter into or make with or through you. Notwithstanding the foregoing, you are authorized in your discretion to require action by any combination of its members or its managers with respect to any matter concerning the Limited Liability Company account, including but not limited to the giving or cancellation of orders and the withdrawal of money, securities, futures, or commodities.

You are authorized to receive from this LLC checks and drafts drawn upon its funds by any of the persons above named or any employee of this LLC and apply the same to the credit of this LLC or its account. You are also authorized to receive from any of the persons above named, or any employee of this LLC, stocks, bonds, options and other securities, as collateral or margin (if this is a margin account) upon this account of this LLC, and to accept instructions from any of the persons above named as to the delivery of stocks, bonds, options and other securities for the account of this LLC and at his or her direction to cause certificates of stock, bonds, options and other securities held in said account to be transferred to the name of any of the persons above named or of this LLC in the discretion of any of the persons above named. Delivery to such person of such stocks, bonds, options, and securities, issued as directed by him or her shall be deemed delivery to this LLC. Notwithstanding the foregoing, you are authorized in your discretion to require action by any combination of its members or its managers with respect to any matter concerning the Limited Liability Company account, including but not limited to the giving or cancellation of orders and the withdrawal of money, securities, futures, or commodities. All confirmations, notices and demands upon this LLC may be delivered by you orally or in writing or by telephone, telegraph, to any of the persons above named who severally is authorized to empower and any person or persons that he or she deems proper at any time or times to do any and all things that he or she is hereinbefore authorized to do.

We, the undersigned certify that a correct list of the members (and manager(s), if the LLC is managed by manager(s) comprising said LLC is set forth on the list attached hereto.

The Corporation is formed to engage in the business of _____ and represents that it is not a commodity pool operator.

We further certify that all transactions, which may be entered into in, said account, or which may have been entered into ("the transactions"), are authorized under the LLC's organizational documents including but not limited to the articles of organization (or similar document property filed) and the operating agreement (or similar type of agreement) of the undersigned.

We hereby represent and warrant to you that each member of the LLC has the legal ability to participate in said LLC according to the laws of the state (i) in which said LLC has been organized and (ii) in which such member is domiciled, and to enter into the transactions. We further represent and warrant that all members (or manager(s)) who are natural persons have reached the age of legal majority.

In case of the death or withdrawal of any one of said members or termination of an authorized manager, if applicable, or in the case of the termination or dissolution of said LLC, we agree to notify you promptly and to execute any supplementary authorization which you may require in such event. If we do not notify you, we hereby authorize you to continue to receive orders in said account which may be given to you by any one of persons above named then surviving and to execute the same and treat all monies, options, futures, securities, or

other property to the credit of said account as the property of the remaining member(s) subject to the order of any of the persons above named as the case may by.

This authorization shall also inure to the benefit of your successors, by merger, consolidation, or otherwise and assigns.

This authorization shall continue until signed, more of revocation is received by or from you and in case of such revocation it shall continue effective as to transactions entered into prior thereto.

If managed by members, ALL MEMBERS must provide information and sign below. If manager-run, ALL MANAGERS must fill in information and sign below.

Name		Signature		
Date	SSN, Fed ID, Cedula, NIT#		ID #	
	ID Type	Expiration Date	Issued By	Issue Date

Name		Signature		
Date	SSN, Fed ID, Cedula, NIT#		ID #	
	ID Type	Expiration Date	Issued By	Issue Date

Name		Signature		
Date	SSN, Fed ID, Cedula, NIT#		ID #	
	ID Type	Expiration Date	Issued By	Issue Date

Name		Signature		
Date	SSN, Fed ID, Cedula, NIT#		ID #	
	ID Type	Expiration Date	Issued By	Issue Date

As defined in Section 5318(j) of Title 31 United States Code, the Corporation is a shell bank: YES / NO; or a business offering services to a shell bank: YES / NO; or a foreign bank: YES / NO. If YES, please complete and return the Certification Regarding Correspondent Accounts.

Important Information About Option Accounts

Before completing the Option Application, please read this important information about options trading:

- Please carefully complete all sections of the Option Application to ensure the timely processing of your request. Make sure to check the appropriate risk level that corresponds to your options trading experience, income and net worth.
- Options involve significant risk and are not suitable for all investors. If you select an Investment Objective other than “Speculation”, options trading may not be suitable for you and your application may be rejected by our option principal.
- Upon receipt of the completed Option Application, an option principal will review your request. Once approved, your account should be updated for the approved level within 24 hours.

Options involve risk and are not suitable for all investors. Certain requirements must be met to trade options through Investrade Discount Securities. Investors should understand these and additional risks before trading. Before considering any option transaction, please read *Characteristics and Risks of Standardized Options* provided by the Options Clearing Corporation (OCC), available in Adobe Acrobat PDF format at <http://www.optionsclearing.com/about/publications/character-risks.jsp>. A current copy may also be obtained by calling Investrade Discount Securities at 1-800-498-7120 or by mailing your request to Investrade Discount Securities, 950 Milwaukee Ave., Ste. 102, Glenview, IL 60025.

If you wish to be approved for option trading or to upgrade your option trading level, please complete and return the Option Application by email to NADept@investrade.com, fax to 1-877-367-8466 or mail it to the address below:

Investrade Discount Securities
950 Milwaukee Ave., Ste. 102
Glenview, IL 60025

Account Number (If Already Assigned)

Investment Information					
Primary Applicant			Joint Applicant		
Primary Applicant Full Name			Joint Applicant Full Name		
Marital Status	# of Dependents	Income	Marital Status	# of Dependents	Income
Approximate Net Worth (excluding residence, furnishings, auto, boats, etc.)		Liquid Net Worth	Approximate Net Worth (excluding residence, furnishings, auto, boats, etc.)		Liquid Net Worth

I have the following investment experience:				I have the following investment experience:			
	Number of Years Investing In	Approx. Average # of Trades/Year	Average Size of Transactions		Number of Years Investing In	Approx. Average # of Trades/Year	Average Size of Transactions
Stocks			Shares	Stocks			Shares
Options			Contracts	Options			Contracts
Bonds			Bonds	Bonds			Bonds
Commodities			Contracts	Commodities			Contracts

I have the following option experience: (Check all that apply.)				I have the following option experience: (Check all that apply.)			
<input type="checkbox"/> Covered Writing	<input type="checkbox"/> Buying Puts & Calls	<input type="checkbox"/> Index Options		<input type="checkbox"/> Covered Writing	<input type="checkbox"/> Buying Puts & Calls	<input type="checkbox"/> Index Options	
<input type="checkbox"/> Call Spreads	<input type="checkbox"/> Put Spreads	<input type="checkbox"/> Uncovered Writing		<input type="checkbox"/> Call Spreads	<input type="checkbox"/> Put Spreads	<input type="checkbox"/> Uncovered Writing	
In addition to the options trading stated above, I hereby certify completion of listed course(s) or have the listed publication(s):				In addition to the options trading stated above, I hereby certify completion of listed course(s) or have the listed publication(s):			
Course/Publication		Date		Course/Publication		Date	

Investment Objective and Risk Tolerance (CHOOSE ONLY ONE)
<input type="checkbox"/> Growth and Income/Conservative: Provides income and the growth of principal.
<input type="checkbox"/> Long Term Growth/Moderate: Provides capital appreciation with an increased level of risk.
<input type="checkbox"/> Short Term Growth/Aggressive: Provides capital appreciation with a high level of risk
<input type="checkbox"/> Speculative/Highest Risk: Provides the potential for significant appreciation; must be willing to accept a greater risk of loss of principal and the highest degree of risk.

I/we have the following strategies and objectives:
Strategy Objective <input type="checkbox"/> Covered Call Writing <i>Income, capital appreciation, hedge, preservation of capital</i> <input type="checkbox"/> Purchase Puts, Calls, Index <i>Speculation</i> <input type="checkbox"/> Spreads/Combinations <i>Speculation</i> <input type="checkbox"/> Uncovered Equity Puts <i>Speculation</i> <input type="checkbox"/> Uncovered Equity Calls <i>Speculation</i> <input type="checkbox"/> Uncovered Indexes <i>Speculation</i>

BY SIGNING BELOW, THE UNDERSIGNED CERTIFIES THAT THE INFORMATION CONTAINED HEREIN IS COMPLETE AND ACCURATE. THE UNDERSIGNED AGREES TO ADVISE THE ABOVE REFERENCED INTRODUCING BROKER OF ANY MATERIAL CHANGE IN THE UNDERSIGNED'S FINANCIAL STATUS AND/OR INVESTMENT OBJECTIVES. BY SIGNING BELOW, THE UNDERSIGNED AGREES TO ALL TERMS OF THE CUSTOMER OPTIONS AGREEMENT PRINTED ON BOTH SIDES OF THIS DOCUMENT. THE REVERSE SIDE OF THIS DOCUMENT, PARAGRAPH 9, CONTAINS A PRE-DISPUTE ARBITRATION CLAUSE. THE UNDERSIGNED ACKNOWLEDGES THAT HE/SHE HAS RECEIVED THE DISCLOSURE DOCUMENT, "CHARACTERISTICS AND RISKS OF STANDARDIZED OPTIONS" AND IS AWARE OF THE SPECIAL RISKS INHERENT IN OPTIONS TRADING.

Applicant's Signature	Date	Joint Applicant's Signature	Date

Office Use Only			
Client Trading Approval: <input type="checkbox"/> Level 1 Covered Call Writing <input type="checkbox"/> Level 2 Purchase Puts, Calls, Index <input type="checkbox"/> Level 3 Spreads/Combinations <input type="checkbox"/> Level 4 Uncovered Equity Puts <input type="checkbox"/> Level 5 Uncovered Equity Calls <input type="checkbox"/> Level 6 Uncovered Indexes			
Options Approved By:	Date	Date OCC Mailed	Date Uncovered Writers Statement Mailed

1. **Definitions. "Introducing broker"** means any brokerage firm which introduces security transactions on behalf of the undersigned, which transactions are cleared through you, whether one or more. **"Obligations"** means all indebtedness, debit balances, liabilities or other obligations of any kind of the undersigned to you, whether now existing or hereafter arising. **"Options"** means all types of options, including puts, calls, equity, debt, index or otherwise. **"Securities and other property"** shall include, but shall not be limited to money, securities, commodities or other property of every kind and nature and all contracts and options relating thereto, whether for present or future delivery. **"You"** or **"your"** refers to Penson Financial Services, Inc.
2. **Limits.** The Undersigned shall not, acting alone or in concert with others, exceed the position/exercise limits set forth by any exchange or market or by any other regulatory authority having jurisdiction.
3. **Authority, Execution of Orders, Security Interest.** The undersigned hereby authorizes you in your discretion, should you deem it necessary for your protection for any reason, or if the undersigned dies, to buy, sell, or sell short for the undersigned's account and risk, puts, calls or other forms of option and/or to buy, sell or sell short any part or all of the underlying shares represented by options endorsed by you for the undersigned's account. Any and all expenses incurred by you in connection with such transactions shall be reimbursed by the undersigned to you. The undersigned understands and acknowledges that when transactions on the undersigned's behalf are to be executed and the options are traded in more than one marketplace you may use your discretion in selecting the market in which to enter the undersigned's order unless the undersigned specifically instructs otherwise. All monies, securities, or other property which you may hold in any account of the undersigned shall be held subject to a general lien for the discharge of the undersigned's obligations to you under this Agreement or otherwise.
4. **Notice, Exercise, Random Allocation.** The undersigned is aware of your requirements and time limitations for accepting an exercise notice and expiration date. The undersigned understands that the undersigned may not receive actual notice of exercise until the week following exercise. The undersigned bears full responsibility for taking action to exercise or sell valuable options; however, in the absence of the undersigned notifying the introducing broker to exercise a valuable options contract by 3 p.m. Central Standard Time on the last business day prior to the expiration date of the options contract, and the introducing broker instructing you to sell valuable options on the undersigned's behalf within such time, the undersigned agrees that you may exercise the options contract on the undersigned's behalf. In the event of such exercise, the profit in excess of commission costs created thereby will be credited to the undersigned's account. In the event that the commissions to be charged for such an expiration transaction exceeds the proceeds to be realized, the undersigned agrees and hereby relinquishes the undersigned's ownership in said option to you, and you may exercise such option for your own account. If the undersigned does not instruct the introducing broker to exercise the valuable option by the time stated above, and you for whatever reason, do not exercise such option on the undersigned's behalf, the undersigned hereby waives any and all claims for damage or loss which the undersigned might at the time or any time thereafter have against you arising out of the fact that the option was not exercised. The undersigned is aware that you utilize a random method of allocation for all option(s) assignments received from the Option Clearing Corporation. Exercise assignment notices for options contracts are allocated among all customers' short positions within that series. This is accomplished by a manual procedure, which randomly selects from among all customer short positions, including positions established on the day of assignment, those contracts which are subject to exercise. All American short positions are liable for assignment at any time. The undersigned understands that a more detailed description of this procedure is available upon request by the undersigned.
5. **Uncovered Options.** The undersigned agrees that in connection with any uncovered option(s) for the undersigned's account, the undersigned will not sell, during the life of such options, the underlying securities collateralizing such options, including any cash or securities which may accrue on the underlying covered securities until such options are closed, exercised or expired or the undersigned has met the collateral requirements established by you and/or the introducing broker for carrying uncovered options. The undersigned also agrees that the introducing broker and/or you, in your respective sole discretion, may refuse any order to sell such underlying securities received from the undersigned or by means of a "give up" basis through another firm unless, prior to such sale, the undersigned has met the collateral requirements established by you and/or the introducing broker for carrying uncovered options. You have the right, in your sole discretion, to permit the undersigned to apply the proceeds of such sale to such collateral requirements.
6. **Risks.** The undersigned is aware of the high degree of risk involved in options transactions and has given the introducing broker, in strict confidence, information to demonstrate that this account and the trading anticipated in connection therewith is not unsuitable for the undersigned in light of the undersigned's investment objectives, financial situation and needs, experience and knowledge. The undersigned agrees to advise the introducing broker of any changes in the undersigned's investment objectives, financial situation or other circumstances that may be deemed to materially affect the suitability of executing options transactions for the undersigned's account.
7. **Options Account Form, Disclosure Documents.** The undersigned has reviewed the contents of the options account form and represents that they are accurate. Although certain types of transactions are indicated as anticipated you and the introducing broker may execute any other types of transactions for the undersigned's account upon the undersigned's instructions. The undersigned has received an Options Disclosure Document relating to options on the categories of underlying securities which the undersigned has been approved for trading.
8. **Accounts Carried as Clearing Broker.** The undersigned understands that you are carrying the accounts of the undersigned as clearing broker by arrangement with the undersigned's introducing broker through whose courtesy the account of the undersigned has been introduced to you. Until receipt from the undersigned of written notice to the contrary, you may accept and rely upon the introducing broker for (a) orders for the purchase or sale in said account of securities and other property, and (b) any other instructions concerning the undersigned's accounts. The undersigned represents that the undersigned understands that you act only to clear trades introduced by the undersigned's introducing broker and to effect other back office functions for the undersigned's introducing broker. The undersigned confirms to you that the undersigned is relying for any advice concerning the undersigned's accounts solely on the undersigned's introducing broker. The undersigned understands that all representatives, employees and other agents with whom the undersigned communicates concerning the undersigned's account are agents of the introducing broker, and not your representatives, employees or other agents. The undersigned understands that you will not review the undersigned's accounts and will have no responsibility for trades made in the undersigned's accounts. You shall not be responsible or liable for any acts or omissions of the introducing broker or its representatives, employees or other agents.

THE FOLLOWING ARBITRATION AGREEMENT SHOULD BE READ IN CONJUNCTION WITH THESE DISCLOSURES:

- a. ALL PARTIES TO THIS AGREEMENT ARE GIVING UP THE RIGHT TO SUE EACH OTHER IN COURT, INCLUDING THE RIGHT TO A TRIAL BY JURY EXCEPT AS PROVIDED BY THE RULES OF THE ARBITRATION FORM IN WHICH A CLAIM IS FILED;
 - b. ARBITRATION AWARDS ARE GENERALLY FINAL AND BINDING; A PARTY'S ABILITY TO HAVE A COURT REVERSE OR MODIFY AN ARBITRATION AWARD IS VERY LIMITED.
 - c. THE ABILITY OF THE PARTIES TO OBTAIN DOCUMENTS, WITNESS STATEMENTS AND OTHER DISCOVERY IS GENERALLY MORE LIMITED IN ARBITRATION THAN IN COURT PROCEEDINGS;
 - d. THE ARBITRATORS DO NOT HAVE TO EXPLAIN THE REASON(S) FOR THEIR AWARD.
 - e. THE PANEL OF ARBITRATORS WILL TYPICALLY INCLUDE A MINORITY OF ARBITRATORS WHO WERE OR ARE AFFILIATED WITH THE SECURITIES INDUSTRY.
 - f. THE RULES OF SOME ARBITRATION FORUMS MAY IMPOSE TIME LIMITS FOR BRINGING A CLAIM IN ARBITRATION. IN SOME CASES, A CLAIM THAT IS INELIGIBLE FOR ARBITRATION MAY BE BROUGHT IN COURT.
 - g. THE RULES OF THE ARBITRATION FORUM IN WHICH THE CLAIM IS FILED, AND ANY AMENDMENTS THERETO, SHALL BE INCORPORATED INTO THIS AGREEMENT.
9. **ARBITRATION AGREEMENT, ANY AND ALL CONTROVERSIES, DISPUTES OR CLAIMS BETWEEN THE UNDERSIGNED AND YOU, OR THE INTRODUCING BROKER, OR YOUR AGENTS, REPRESENTATIVES, EMPLOYEES, DIRECTORS, OFFICERS OR CONTROL PERSONS, OR OF THE INTRODUCING BROKER, ARISING OUT OF, IN CONNECTION WITH, FROM OR WITH RESPECT TO (a) ANY PROVISIONS OF OR THE VALIDITY OF THIS AGREEMENT OR ANY RELATED AGREEMENTS, (b) THE RELATIONSHIP OF THE PARTIES HERETO, OR (c) ANY CONTROVERSY ARISING OUT OF YOUR BUSINESS, THE INTRODUCING BROKER'S BUSINESS OR THE UNDERSIGNED'S ACCOUNTS SHALL BE CONDUCTED PURSUANT TO THE CODE OF ARBITRATION PROCEDURE OF FINANCIAL INDUSTRY REGULATORY AUTHORITY, INC. ARBITRATION MUST BE COMMENCED BY SERVICE OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE. IF YOU ARE A PARTY TO SUCH ARBITRATION, TO THE EXTENT PERMITTED BY THE RULES OF THE APPLICABLE ARBITRATION TRIBUNAL, THE ARBITRATION SHALL BE CONDUCTED IN DALLAS, TEXAS. THE DECISION AND AWARD OF THE ARBITRATORS(S) SHALL BE CONCLUSIVE AND BINDING UPON ALL PARTIES, AND ANY JUDGMENT UPON ANY AWARD RENDERED MAY BE ENTERED IN A COURT HAVING JURISDICTION THEREOF, AND NEITHER PARTY SHALL OPPOSE SUCH ENTRY.**
- No person shall bring a putative or certified class action to arbitration, nor seek to enforce any pre-dispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is de-certified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.
10. **Other Agreements.** The undersigned agrees to be bound by the terms of your Customer Account Agreement. If the undersigned trade on margin or short accounts, the undersigned agrees to be bound by the terms of your Customer Margin and Short Account Agreement. The undersigned understands that copies of these agreements are available from you and, to the extent applicable, are incorporated by reference herein. The terms of these other agreements are in addition to the provisions of this Agreement and any other written agreements between you and the undersigned.
 11. **Data Not Guaranteed.** The undersigned expressly agrees that any data or online reports is provided to the undersigned without warranties of any kind, express or implied, including but not limited to, the implied warranties of merchantability, fitness of a particular purpose or non-infringement. The undersigned acknowledges that the information contained in any reports provided by you is obtained from sources believed to be reliable but is not guaranteed as to its accuracy or completeness. Such information could include technical or other inaccuracies, errors or omissions. In no event shall you or any of your affiliates be liable to the undersigned or any third party for the accuracy, timeliness, or completeness of any information made available to the undersigned or for any decision made or taken by the undersigned in reliance upon such information. In no event shall you or your affiliated entities be liable for any special incidental, indirect or consequential damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not advised of the possibility of damages, and on any theory of liability, arising out of or in connection with the use of any reports provided by you or with the delay or inability to use such reports.
 12. **Credit Check.** You are authorized, in your discretion, should you for any reason deem it necessary for your protection to request and obtain a consumer credit report for the undersigned.
 13. **Miscellaneous.** The undersigned agrees that this Agreement and all transactions in the undersigned's accounts shall be governed by the constitution, rules, regulations, customs, usages and bylaws of the Options Clearing Corporation and all exchanges or other facilities upon which options are traded for the account of the undersigned. If any provisions of this Agreement is held to be unenforceable, it shall not affect any other provisions of this Agreement. The headings of each sections of this Agreement are descriptive only and do not modify or qualify any provision of this Agreement. This Agreement and its enforcement shall be governed by the law of the state of Texas and shall cover individually and collectively all accounts which the undersigned has previously opened, now has open or may open or reopen with you, or any introducing broker, and any and all previous, current and future transactions in such accounts. Except as provided in this Agreement, no provision of this Agreement may be altered, modified or amended unless in writing signed by your authorized representative. This Agreement and all provisions shall insure to the benefit of you and your successors, whether by merger, consolidation or otherwise, your assigns, the undersigned's introducing broker, and all other persons specified in Paragraph 9. You shall not be liable for losses caused directly or indirectly by any events beyond your reasonable control, including without limitation, government restrictions, exchange or market rulings, suspension of trading or unusually heavy trading in securities, a general change in economic, political or financial conditions, war or strikes. You may transfer the accounts of the undersigned to your successors and assigns. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the undersigned.



950 Milwaukee Ave., Ste. 102
 Glenview, IL 60025
 Tel: 1-800-498-7120
 Fax: 1-877-367-8466
 Web: www.investrade.com

Margin/Short Account Agreement

Account Number: _____

- Applicable Rules and Regulations.** All transactions shall be subject to the constitution, rules, regulations, customs and usages of the exchange or market and its clearing house, if any, upon which such transactions are executed, except as otherwise specifically provided in this Agreement.
- Definitions. "Introducing broker"** means any brokerage firm, which introduces securities transactions on behalf of the undersigned, which transactions are cleared through you, whether one or more. **"Obligations"** means all indebtedness, debit balances, liabilities or other obligations of any kind of the undersigned to you, whether now existing or hereafter arising. **"Securities and other property"** shall include, but shall not be limited to, money, securities, commodities or other property of every kind and nature and all contracts and options relating thereto, whether for present or future delivery. **"You"** or **"your"** refers to Penson Financial Services, Inc. **"Undersigned"** refers to the customer, or the party signing this agreement on behalf of the customer.
- Security Interest.** All securities and other property now or hereafter held, carried or maintained by you in or for any of the accounts of the undersigned, now or hereafter opened, including any accounts in which the undersigned may have an interest, shall be subject to a first and prior lien and security interest for the discharge of all of the obligations of the undersigned to you, and are to be held by you as security for the payment of the obligations of the undersigned to you, to the fullest extent allowed by law. You shall have the right to transfer securities and other property so held by you from or to any other of the accounts of the undersigned whenever you so determine.
- Liquidation.** In the event of the death of the undersigned, or in the event the margin in any account in which the undersigned has an interest shall in either your or the introducing broker's discretion become unsatisfactory to either you or the introducing broker, or be deemed insufficient by either you or the introducing broker, you are hereby authorized; (a) to sell any or all securities or other property which you may hold for the undersigned (either individually or jointly with others); (b) to buy any or all securities and other property which may be short in such accounts; and/or (c) to cancel any open orders and to close any or all outstanding contracts; all without demand for margin or additional margin, notice of sale or purchase, or other notice or advertisement, and that any prior demand or notice shall not be a waiver of your rights provided herein. You may likewise accept and rely upon instructions which you receive from the introducing broker to effect any of the aforementioned transactions (as noted in (a); (b); and (c)). You shall have the discretion to determine which securities and other property are to be sold and which contracts are to be closed. Any such sales or purchases may be made at your discretion on any exchange, the over-the-counter market or any other market where such business is usually transacted, or at public auction or private sale, and you may be the purchaser for your own account.
- Cancellation.** You are authorized, in your discretion, should you for any reason whatsoever deem it necessary for your protection, without notice, to cancel any outstanding order, to close out the accounts of the undersigned, in whole or in part, or to close out any commitment made on behalf of the undersigned.
- Payment of Indebtedness Upon Demand.** The undersigned shall at all times be liable for the payment upon demand of any obligations owing from the undersigned to you, and the undersigned shall be liable to you for any deficiency remaining in any such accounts in the event of liquidation thereof (as contemplated in Paragraph 4 of this Agreement or otherwise), in whole or in part, by you or by the undersigned; and the undersigned shall make payment of such obligations upon demand.
- Liability for Costs of Collection.** The costs and expenses of collection of the debit balance and any unpaid deficiency in the accounts of the undersigned with you, including but not limited to reasonable attorneys' fees and expenses, incurred and payable or paid by you shall be payable to you by the undersigned.
- Accounts Carried as Clearing Broker.** The undersigned understands that you are carrying the accounts of the undersigned as clearing broker by arrangement with the undersigned's introducing broker through whose courtesy the account of the undersigned has been introduced to you. Until receipt from the undersigned of written notice to the contrary, you may accept from and rely upon the undersigned's introducing broker (a) orders for the purchase or sale of securities and other property, and (b) any other instructions concerning the undersigned's accounts. The undersigned represents that the undersigned understands that you act only to clear trades introduced by the undersigned's introducing broker and to effect other back office functions for the undersigned's introducing broker. The undersigned confirms to you that the undersigned is relying for any advice concerning the undersigned's accounts solely on the undersigned's introducing broker. The undersigned understands that all representatives, employees and other agents with whom the undersigned communicates concerning the undersigned's account are agents of the introducing broker and not your representatives, employees or other agents. The undersigned understands that you are not a principal of or partner with, and do not control in any way, the introducing broker or its representatives, employees or other agents. The undersigned understands that you will not review the undersigned's accounts and will have no responsibility for trades made in the undersigned's accounts. You shall not be responsible or liable for any acts or omissions of the introducing broker or its representatives, employees or other agents.
- Communications.** You may send communications to the undersigned at the address of the undersigned or at such other address as the undersigned may hereafter give you in writing, and all communications so sent, whether by mail, telegraph, messenger or otherwise, shall be deemed given to the undersigned personally, whether actually received or not. Reports of execution of orders and statements of accounts of the undersigned shall be conclusive if not objected to in writing to you, the former within five (5) days and the latter within ten (10) days, after forwarding by you to the undersigned by mail or otherwise.

BY SIGNING BELOW, THE UNDERSIGNED AGREES TO ALL TERMS OF THE MARGIN AND SHORT ACCOUNT AGREEMENT PRINTED ON THIS SIDE AND THE REVERSE SIDE OF THIS DOCUMENT. THE REVERSE SIDE OF THIS AGREEMENT CONTAINS A PRE-DISPUTE ARBITRATION CLAUSE IN PARAGRAPH 10. The undersigned acknowledges that the undersigned's margin account securities may be borrowed by you or loaned to others. The undersigned also acknowledges receipt of a copy of this Agreement and a copy of the Margin Risk Disclosure Statement.

Date of Delivery of Margin Risk Disclosure Statement: _____

For use by individuals, including Joint accounts:

Signature _____
 Print Name _____
 Date _____

Signature _____
 Print Name _____
 Date _____

For use by entity accounts only (i.e. corporations, partnerships, trusts):

if this account for a foreign bank? Yes / No

Is this account for a foreign shell bank? Yes / No

If Yes, please list Agent for service of process: _____

Does the firm offer service for foreign shell bank? Yes / No

If you answered Yes to any of the above questions, Corporation will need to complete Certification Regarding Correspondent Accounts.

Signature _____
 Print Name _____
 Title _____
 Date _____

Signature _____
 Print Name _____
 Title _____
 Date _____

Office Use Only			
Account Number	Registered Representative	Rep. Code	Office Code
Approved By:		Date	

Investrade Discount Securities

THE FOLLOWING ARBITRATION AGREEMENT SHOULD BE READ IN CONJUNCTION WITH THESE DISCLOSURES:

- a. ALL PARTIES TO THIS AGREEMENT ARE GIVING UP THE RIGHT TO SUE EACH OTHER IN COURT, INCLUDING THE RIGHT TO A TRIAL BY JURY EXCEPT AS PROVIDED BY THE RULES OF THE ARBITRATION FORM IN WHICH A CLAIM IS FILED;
- b. ARBITRATION AWARDS ARE GENERALLY FINAL AND BINDING; A PARTY'S ABILITY TO HAVE A COURT REVERSE OR MODIFY AN ARBITRATION AWARD IS VERY LIMITED.
- c. THE ABILITY OF THE PARTIES TO OBTAIN DOCUMENTS, WITNESS STATEMENTS AND OTHER DISCOVERY IS GENERALLY MORE LIMITED IN ARBITRATION THAN IN COURT PROCEEDINGS;
- d. THE ARBITRATORS DO NOT HAVE TO EXPLAIN THE REASON(S) FOR THEIR AWARD.
- e. THE PANEL OF ARBITRATORS WILL TYPICALLY INCLUDE A MINORITY OF ARBITRATORS WHO WERE OR ARE AFFILIATED WITH THE SECURITIES INDUSTRY.
- f. THE RULES OF SOME ARBITRATION FORUMS MAY IMPOSE TIME LIMITS FOR BRINGING A CLAIM IN ARBITRATION. IN SOME CASES, A CLAIM THAT IS INELIGIBLE FOR ARBITRATION MAY BE BROUGHT IN COURT.
- g. THE RULES OF THE ARBITRATION FORUM IN WHICH THE CLAIM IS FILED, AND ANY AMENDMENTS THERETO, SHALL BE INCORPORATED INTO THIS AGREEMENT.

10. **ARBITRATION AGREEMENT.** ANY AND ALL CONTROVERSIES, DISPUTES OR CLAIMS BETWEEN THE UNDERSIGNED AND YOU, OR THE INTRODUCING BROKER, OR YOUR AGENTS, REPRESENTATIVES, EMPLOYEES, DIRECTORS, OFFICERS OR CONTROL PERSONS OR THE AGENTS, REPRESENTATIVES, EMPLOYEES, DIRECTORS, OFFICERS OR CONTROL PERSONS OF THE INTRODUCING BROKER, ARISING OUT OF, IN CONNECTION WITH, FROM OR WITH RESPECT TO (a) ANY PROVISIONS OF OR THE VALIDITY OF THIS AGREEMENT OR ANY RELATED AGREEMENTS, (b) THE RELATIONSHIP OF THE PARTIES HERETO, OR (c) ANY CONTROVERSY ARISING OUT OF YOUR BUSINESS, THE INTRODUCING BROKER'S BUSINESS OR THE UNDERSIGNED'S ACCOUNTS, SHALL BE CONDUCTED PURSUANT TO THE CODE OF ARBITRATION PROCEDURE OF THE FINRA. ARBITRATION MUST BE COMMENCED BY SERVICE OF A WRITTEN DEMAND FOR ARBITRATION OR A WRITTEN NOTICE OF INTENTION TO ARBITRATE. THE DECISION AND AWARD OF THE ARBITRATOR(S) SHALL BE CONCLUSIVE AND BINDING UPON ALL PARTIES, AND ANY JUDGMENT UPON ANY AWARD RENDERED MAY BE ENTERED IN A COURT HAVING JURISDICTION THEREOF, AND NEITHER PARTY SHALL OPPOSE SUCH ENTRY.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any pre-dispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; or (ii) the class is de-certified; or (iii) the customer is excluded from the class by the court. Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this agreement except to the extent stated herein.

11. **Hypothecation.** Within the limitations imposed by applicable laws, rules and regulations, all securities now or hereafter held by you, or carried by you in any account for the undersigned (either individually or jointly with others), or deposited to secure same, may from time to time, without any notice, be carried in your general loans and may be pledged, repledged, hypothecated or re-hypothecated, separately or in common with other securities for the sum due to you thereon or for a greater sum and without retaining in your possession or control for delivery a like amount of similar securities. The IRS requires Broker Dealers to treat dividend payments on loaned securities positions as in-lieu dividends for 1099 tax reporting purposes. Taxation of substitute dividend payments may be greater than ordinary on qualified dividends. It is understood, however, that you agree to deliver to the undersigned upon demand and upon payment of the full amount due thereon, all securities in such accounts, but without obligation to deliver the same certificates or securities deposited by the undersigned originally. Any securities in the undersigned's margin or short account may be borrowed by you, or lent to others.
12. **Interest.** Debit balances in all the accounts of the undersigned shall be charged with interest in accordance with your established custom, as disclosed to the undersigned in the Customer Information Brochure pursuant to the provisions of Rule 10b-16 of the Securities Exchange Act.
13. **Margin.** The undersigned agrees to maintain in all accounts with you such positions and margins as required by all applicable statutes, rules, regulations, procedures and custom, or as you deem necessary or advisable. The undersigned agrees to promptly satisfy all margin and maintenance calls.
14. **Sales.** The undersigned agrees to specifically designate any order to sell a security, which the undersigned does not own as a short sale, and understands that you will mark such order as a short sale. The undersigned agrees that any order which is not specifically designated as a short sale is a sale of securities owned by the undersigned, and that the undersigned will deliver the securities on or before settlement date, if not already in the account. If the undersigned should fail to make such delivery in the time required, you are authorized to borrow such securities as necessary to make delivery for the undersigned's sale, and the undersigned agrees to be responsible for any loss you may thereby sustain, or which you may sustain as a result of your inability to borrow such securities.
15. **Representations.** The undersigned represents that the undersigned is of majority age, that the undersigned is not an employee of any exchange, or of any corporation of which any exchange owns a majority of the capital stock, or of a member of any exchange, or of a member firm or a member corporation registered on any exchange or of a bank, trust company, insurance company or of any corporation, firm or individual engaged in the business dealing either as broker or as principal in securities, bills of exchange, acceptances or other forms of commercial paper. If the undersigned is a corporation, partnership, trust or other entity, the undersigned represents that its governing instruments permit this Agreement, that all applicable persons have authorized this Agreement and that the undersigned signatory is authorized to bind the undersigned. The undersigned represents that the undersigned shall comply with all applicable laws, rules and regulations in connection with the undersigned's account. The undersigned further represents that no one except the undersigned has an interest in the account or accounts of the undersigned with you.
16. **Joint Account.** If the undersigned shall consist of more than one person, the undersigned's obligations under this Agreement shall be joint and several. References to the "undersigned" shall include each of the undersigned. You may rely on transfer or other instructions from any one of the undersigned in a joint account, and such instructions shall be binding on each of the undersigned. You may deliver securities or other property to, and send confirmations, notices, statements and communications of every kind, to any one of us, and such action shall be binding on each of us. Notwithstanding the foregoing, you are authorized in your discretion to require joint action by the joint tenants with respect to any matter concerning the joint account, including but not limited to the giving or cancellation of orders and the withdrawal or money, securities, futures or commodities.
17. **Other Agreements.** The undersigned agrees to be bound by the terms of your Customer Account Agreement. If the undersigned trades any options, the undersigned agrees to be bound by the terms of your Customer Option Agreement. The undersigned understands that copies of these agreements are available from you and, to the extent applicable, are incorporated by reference herein. The terms of these other agreements are in addition to the provisions of this Agreement and any other written agreements between you and the undersigned.
18. **Data Not Guaranteed.** The undersigned expressly agrees that any data or online reports is provided to the undersigned without warranties of any kind, express or implied, including but not limited to, the implied warranties of merchantability, fitness of a particular purpose or non-infringement. The undersigned acknowledges that the information contained in any reports provided by you is obtained from sources believed to be reliable but is not guaranteed as to its accuracy or completeness. Such information could include technical or other inaccuracies, errors or omissions. In no event shall you or any of your affiliates be liable to the undersigned or any third party for the accuracy, timeliness, or completeness of any information made available to the undersigned or for any decision made or taken by the undersigned in reliance upon such information. In no event shall you or your affiliated entities be liable for any special incidental, indirect or consequential damages whatsoever, including, without limitation, those resulting from loss of use, data or profits, whether or not advised of the possibility of damages, and on any theory of liability, arising out of or in connection with the use of any reports provided by you or with the delay or inability to use such reports.
19. **Credit Check.** You are authorized, in your discretion, should you for any reason deem it necessary for your protection to request and obtain a consumer credit report for the undersigned.
20. **Miscellaneous.** If any provision of this Agreement is held to be unenforceable; it shall not affect any other provision of this Agreement. The headings of each section of this Agreement are descriptive only and do not modify or qualify any provision of this Agreement. This Agreement and its enforcement shall be governed by the laws of the state of Texas and shall cover individually and collectively all accounts which the undersigned has previously opened, now has open or may reopen with you, or any introducing broker, and any and all previous, current and future transactions in such accounts. Except as provided in this Agreement, no provision of this Agreement may be altered, modified or amended unless in writing signed by your authorized representative. This Agreement and all provisions shall inure to the benefit of your successors, whether by merger, consolidation or otherwise, your assigns, the undersigned's introducing broker, and all other persons specified in Paragraph 10. You shall not be liable for losses caused directly or indirectly by any events beyond your reasonable control, including without limitation, government restrictions, exchange or market rulings, suspension of trading or unusually heavy trading in securities, a general change in economic, political or financial conditions, war or strikes. You may transfer the accounts of the undersigned to your successors and assigns. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the undersigned.

We are furnishing this document to you to provide some basic facts about purchasing securities on margin, and to alert you to the risks involved with trading securities in a margin account. Before trading stocks in a margin account, you should carefully review the margin agreement provided by your broker. Consult your broker regarding any questions or concerns you may have with your margin accounts.

When you purchase securities, you may pay for the securities in full or you may borrow part of the purchase price from your brokerage firm. If you choose to borrow funds from your firm, you will open a margin account with the firm. The securities purchased are the firm's collateral for the loan to you. If the securities in your account decline in value, so does the value of the collateral supporting your loan, and as a result, the firm can take action, such as issue a margin call and/or sell securities in your account, in order to maintain the required equity in the account.

It is important that you fully understand the risks involved in trading securities on margin. These risks include the following:

- **You can lose more funds than you deposit in the margin account.** A decline in the value of securities that are purchased on margin may require you to provide additional funds to the firm that has made the loan to avoid the forced sale of those securities or other securities in your account.
- **The firm can force the sale of securities in your account.** If the equity in your account falls below the maintenance margin requirements under the law, or the firm's higher "house" requirements, the firm can sell the securities in your account to cover the margin deficiency. You also will be responsible for any shortfall in the account after such a sale.
- **The firm can sell your securities without contacting you.** Some investors mistakenly believe that a firm must contact them for a margin call to be valid, and that the firm cannot liquidate securities in their accounts to meet the call unless the firm has contacted them first. This is not the case. Most firms will attempt to notify their customers of margin calls, but they are not required to do so. However, even if a firm has contacted a customer and provided a specific date by which the customer can meet a margin call, the firm can still take necessary steps to protect its financial interest, including immediately selling the securities without notice to the customer.
- **You are not entitled to choose which security in your margin account is liquidated or sold to meet a margin call.** Because the securities are collateral for the margin loan, the firm has the right to decide which security to sell in order to protect its interests.
- **The firm can increase its "house" maintenance margin requirement at any time and is not required to provide you advance written notice.** These changes in firm policy often take effect immediately and may result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause the member to liquidate or sell securities in your account.
- **You are not entitled to an extension of time on a margin call.** While an extension of time to meet margin requirements may be available to customers under certain conditions, a customer does not have a right to the extension.
- **The IRS requires Broker Dealers to treat dividend payments on loaned securities positions as a "substitute payment" in lieu of a dividend.** A substitute payment is not, a "qualified dividend" and is taxed as ordinary income.
- **Industry regulations may limit, in whole or in part, your ability to exercise voting rights of securities that have been lent or pledged to others.** You may receive proxy materials indicating voting rights for a fewer number of shares than are in your account, or you may not receive any proxy materials.

Credit Terms and Policies

The following Disclosure of Credit Terms and Policies is required by the Securities and Exchange Commission and is part of your Investrade Discount Securities Account—Customer Account Agreement. It describes the terms under which we extend credit and charge interest and how your obligations are secured by property in your Account.

Interest Charges. We will charge interest on a daily basis on the credit we extend to you. The daily interest charges are calculated by multiplying your "daily adjusted debit balance" by the "daily margin interest rate." Generally speaking, your daily adjusted debit balance is the actual settled debit balance in your Margin and Short Account, increased by the value of securities held short and reduced by the amount of any settled credit balance carried in your Cash Account.

We calculate your daily-adjusted debit balance each day by adjusting your previous day's balance by any debits and credits to your account and by changes in the value of short positions. If your daily-adjusted debit balance is reduced because you deposit a check or other item that is later returned to us unpaid, we may adjust your account to reflect interest charges you have incurred.

We reserve the right to charge interest on debit balances in the Cash Account. Periodically, we will send you a comprehensive statement showing the activity in your account, including applicable interest charges, interest rates and adjusted daily debit balances.

Daily Margin Interest Rate. The "daily margin interest rate" is based on a 360-day year. It is calculated for each day by dividing the base margin interest rate by 360. Note that the use of a 360-day year results in a higher effective rate of interest than if a year of 365 days were used.

The applicable margin interest rate is set according to the following schedule:

Daily Average \$ Debit Balance	Interest Rate
Less than 49,999	1.50% above broker call rate
50,000 to 99,999	.75% above broker call rate
100,000 to 249,999	at broker call rate
250,000 to 499,999	.50% below broker call rate
500,000 and above	1.00% below broker call rate

Your margin interest rate will be adjusted automatically and without notice to reflect any change in the Base Rate. If your interest rate increases for any reason other than a change in the Base Rate, we will give you written notice at least 30 days' prior to that change.

Compounding Interest Charges. We compound interest on a daily basis. Interest charges will accrue to your account each day. We will include the charges in the next day's opening debit balance and charge interest accordingly. The interest rates described above do not reflect compounding of unpaid interest charges; the effective interest rate, taking into effect such compounding, will be higher.

Initial Margin Requirements. The Federal Reserve Board and various stock exchanges determine margin loan rules and regulations. When you purchase securities on margin, you agree to deposit the required initial equity by the settlement date and to maintain your equity at the required levels. The maximum amount we currently may loan for common stock (equity) securities is 50% of the value of marginable securities purchased in your Margin and Short Account; different requirements apply to non-equity securities, such as bonds or options. If the market value of stock held as collateral increases after you have met the initial margin requirements, your available credit may increase proportionately. Conversely, if the market value decreases, your available credit may proportionately decrease.

Initial margin requirements may change without prior notice. We may impose anytime and without prior notice more stringent requirements on positions that in our sole discretion involve higher levels of risk; for example, higher limits may apply for thinly traded, speculative or volatile securities, or concentrated positions of securities.

You may purchase only certain securities on margin or use them as collateral in your Margin and Short Account. Most stocks traded on national securities exchanges, and some over-the-counter (OTC) securities are marginable. At our discretion, we reserve the right not to extend credit on any security.

Equity securities with a market value of less than \$3 per share may not be purchased on margin or deposited as margin collateral. If the market value of a security drops below \$3 per share, the security will not be assigned any value as collateral to secure your margin obligations.

Margin Maintenance Requirements. You must maintain a minimum amount of equity in your account to collateralize your outstanding loans and other obligations. Margin maintenance requirements are set:

- By the rules and regulations of the New York Stock Exchange, the American Stock Exchange and other regulatory agencies to the jurisdiction of which we are subject; and
- According to our sole discretion and judgment.

You agree to maintain in your Margin and Short Account collateral of the type and amount required by:

- Applicable exchange rules and federal regulations; and
- Our Disclosure of Credit Terms and Policies; or
- As required by us, at our discretion.

Margin maintenance requirements may change without prior notice.

We may issue a "margin call" (that is, a notification to deposit additional collateral) if your account equity falls below the margin maintenance requirement. This can happen for various reasons. The most common reasons are a decrease in the value of long securities held as collateral or an increase in the value of securities held short.

As a general guideline and when it is practicable to do so, we may (but are not required to) issue a margin call when the equity in your Margin and Short Account falls below a predetermined percentage of the market value of assets at risk (that is, the sum of the market values of the long and short equity security positions) in your Margin and Short Account. The amount of additional collateral we require usually is an amount sufficient to raise your equity to minimum standards. For information on the current equity requirements, please contact your broker.

We retain absolute discretion to determine whether, when and in what amounts we will require additional collateral. In some situations, we may find it necessary to require a higher level of equity in your account. For example, we may require additional collateral if an account contains:

- Only one security or a large concentration of one or more securities; or
- Low-priced, thinly traded or volatile securities; or if
- Some of your collateral is or becomes restricted or non-negotiable or non-marginable. We also may consider market conditions and your financial resources.

Account Transfer Information

There are three types of account transfers. You may only choose one type of account transfer. If you select more than one type your transfer will be rejected.

Account Transfer Types

1. **Transfer all assets in kind**: This is a full transfer. All of your current positions and cash with transfer as is.
2. **Liquidate and transfer**: This is a full transfer. Your account will be transferred as cash by liquidating **all** of your current positions at the original broker.
3. **Partial transfer**: This allows you to select specific positions to transfer. Be sure to indicate exactly which positions you want to transfer. You may only transfer whole shares; **fractional shares will not be transferred**.

Account Transfer Timeframes

- ACAT transfers will take 3-5 business days.
- Non-ACAT transfers can take up to 2-3 weeks.

REMINDER: Please include a copy of your most recent statement from your current broker.

1. Information about your account:

Title of Your Account: _____

PFSI Account Number: _____ SSN/Tax ID: _____

PLEASE ATTACH A COPY OF YOUR MOST RECENT STATEMENT FOR THE ACCOUNT YOU ARE TRANSFERRING TO PENSON. WE CANNOT PROCESS YOUR REQUEST WITHOUT THE STATEMENT.

2. Information about the account you are transferring:

Title of Your Account: _____

Account Number: _____ Name of Firm: _____

Address of Firm: _____

City, State, Zip: _____ Broker Clearing #: _____

If your PFSI account is not the same type of account as the one you are transferring, you must complete the **Letter of Authorization (Section 7)** on the 2nd page of this form.

3. Type of Transfer:

- Brokerage Firm Transfer (Transfer All Assets In Kind)
- Liquidate All Assets and Transfer as Cash
- Partial Transfer (Skip to Section 4)
- Mutual Fund Company Transfer (Skip to Section 5)
- Non-ACAT Transfer (Transfer All Assets In Kind)

- Liquidate Annuity and Transfer as Cash
- Liquidate Certificates of Deposit IMMEDIATELY
I am aware of and acknowledge the penalty for early withdrawal.
- Transfer Proceeds of Certificates of Deposit AT MATURITY
Submit transfer request 30 days prior to maturity.

4. Partial Transfer: (Please specify the assets you wish to transfer, attach additional pages if needed.)

Quantity	Assets Description/Symbol	Transfer (Select One)
		<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate
		<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate
		<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate
		<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate
		<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate

5. Mutual Fund Company Transfer: (Use a separate form for each mutual fund company.)

Name of Fund Company: _____

Name of Fund/Symbol/Cusip	Transfer (Select One)	Fund Account #	Transfer (Select One)	Future Dividend (Select One)	Future Capital Gains (Select One)
	<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate		<input type="checkbox"/> All <input type="checkbox"/> # of Shares _____	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash
	<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate		<input type="checkbox"/> All <input type="checkbox"/> # of Shares _____	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash
	<input type="checkbox"/> Transfer in Kind <input type="checkbox"/> Liquidate		<input type="checkbox"/> All <input type="checkbox"/> # of Shares _____	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash	<input type="checkbox"/> Reinvest <input type="checkbox"/> Pay in Cash

6. Signature(s): (Please read and sign.)

If this account is a qualified retirement account, I have amended the applicable plan so that it names Penson Financial Services, Inc. (PFSI) as successor custodian. Unless otherwise indicated in the instructions above, please transfer all assets in my account to PFSI. I understand that to the extent any assets in my account are not readily transferable with or without penalties; such assets may not be transferred within the time frames required by NYSE Rule 412 or similar rule of the FINRA or other designated examining authority.

Investrade Discount Securities

I authorize you to liquidate any non-transferable proprietary money market fund assets that are part of my account and transfer the resulting credit balance to PFSI. I authorize you to deduct any outstanding fees due you from the credit balance in my account. If my account does not contain a credit balance, or if the credit balance in the account is insufficient to satisfy any outstanding fee due you, I authorize you to liquidate the assets in my account to the extent necessary to satisfy that obligation. If certificates or other instruments in my account are in your physical possession, I instruct you to transfer them in good deliverable form, including affixing any necessary tax waivers, to enable the successor custodian to transfer them into its name for the purpose of sale, when and as directed by me. I understand that upon receiving a copy this transfer instruction, you will cancel all open orders for my account on your books.

I affirm that I have destroyed or returned to you credit/debit cards and/or unused checks issued to me in connection with my securities account. I understand that you will contact me with respect to the disposition of any assets in my securities account that are non-transferable.

Primary Signature: _____ Date: _____

Secondary Signature: _____ Date: _____

PLEASE ATTACH A COPY OF YOUR MOST RECENT STATEMENT FOR THE ACCOUNT YOU ARE TRANSFERRING TO PENSON. WE CANNOT PROCESS YOUR REQUEST WITHOUT THE STATEMENT.

Letter of Acceptance

To the prior Custodian/Trustee: Please be advised that Penson Financial Services, Inc. (PFSI) hereby accepts an appointment as successor custodian.

Successor Custodian/Trustee Authorized Signature: _____ Date: _____

Successor Custodian Tax ID Number: _____ Date of Trust: _____

7: Letter of Authorization: (Please complete if the type of account in Section 1 is different than Section 2.)

To Penson Financial Services, Inc.:

I hereby authorize the following transfer of assets:

Transfer From:

Delivering Firm: _____ Account Number: _____

Account Title: _____

Transfer To:

PFSI Account Number: _____

Account Title: _____

Investment Representative's Name: _____ Office #: _____ Rep #: _____

I understand this transfer constitutes a change in ownership of the assets and that the new registered account holders will have exclusive rights to the assets.

Sincerely,

Primary Applicant Signature: **X** _____

Secondary Applicant Signature: **X** _____

COMPLETION OF THIS FORM DOES NOT GUARANTEE ACCEPTANCE BY DELIVERING FIRM.

For Broker Use Only - Transfer Instructions:		
<p>REGULAR MAILING INSTRUCTIONS: Penson Financial c/o Broadridge Attn: Imaging & Workflow Solutions P.O. Box 1348 Brentwood, NY 11717-4627</p>	<p>GNMA INSTRUCTIONS: ABA: 021000018/QUICK</p> <p>TAX ID#: 56-1673990</p>	<p>INCOMING WIRE INSTRUCTIONS: JP Morgan Chase ABA 021000021 F/A Penson Financial Services A/C #066-6-00030 FFC: Customer A/C # and Customer Name</p>
<p>OVERNIGHT MAILING INSTRUCTIONS: Penson Financial c/o Broadridge Attn: Imaging & Workflow Solutions 1155 Long Island Ave. Edgewood, NY 11717</p>	<p>NSCC INSTRUCTIONS: NSCC# 0158 PFSI</p>	<p>CREST SECURITIES: Penson Financial Service Corp Crest ID 82XHJ</p>
<p>DTC INSTRUCTIONS: #0158 PFSI FAO: Customer Acct # (Penson accepts PTD's and PTR's)</p>	<p>FNMA/FREDDIES/US TREAS INSTRUCTIONS: ABA 021000018 Bank of New York/QUICK</p>	<p>MUTUAL FUND RE-REGISTRATION: Penson Financial Services, Inc. FBO: _____ 1700 Pacific Avenue, Suite 1400 Dallas, TX 75201</p>
<p>PHYSICAL INSTRUCTIONS: New York Window 55 Water St., 1st Floor A/C Penson Customer Acct # New York, NY 10041</p>	<p>AGENT ID/INSTITUTIONAL: 89331</p> <p>FOREIGN SECURITIES INSTRUCTIONS: Euroclear: #15110 Account: JP Morgan Chase London Reference: Penson Financial Services, Inc.</p>	<p>CHECKS: PFSI: FBP (Client's name and acct number) Ridge Clearing and Outsourcing Solutions 1981 Marcus Avenue Lake Success, NY 11042</p>