$$\frac{i\hbar}{\alpha} \lim_{\varepsilon \to 0} \frac{\Phi[\chi(\square - \varepsilon)] - \Phi[\chi]}{\varepsilon}$$
$$= \int dt \left\{ \frac{1}{2m} \left[-\frac{i\hbar}{\alpha} \frac{\delta}{\delta \chi(t)} \right]^2 + V(\chi(t)) \right\} \Phi[\chi]$$

$$\Downarrow$$

$$-\frac{i\hbar}{\alpha} \int dt \ \dot{\chi}(t) \frac{\delta}{\delta \chi(t)} \Phi[\chi]$$
$$= \int dt \left\{ \frac{1}{2m} \left[-\frac{i\hbar}{\alpha} \frac{\delta}{\delta \chi(t)} \right]^2 + V(\chi(t)) \right\} \Phi[\chi]$$

$$\Downarrow$$

$\delta \dot{\chi}(t) / \delta \chi(t) = \dot{\delta}\ (0) = 0$

$$0 = \int dt \left\{ \frac{1}{2m} \left[-\frac{i\hbar}{\alpha} \frac{\delta}{\delta \chi(t)} - m \dot{\chi}(t) \right]^2 - \frac{m}{2} [\dot{\chi}\ (t)]^2 + V(\chi(t)) \right\} \Phi[\chi]$$